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# **Panasonic**

**Colour Television**

**TX-26V2Z**

## **Operating Instructions**

Please read these instructions completely before operating this set  
and retain it for future reference.

TQB620849

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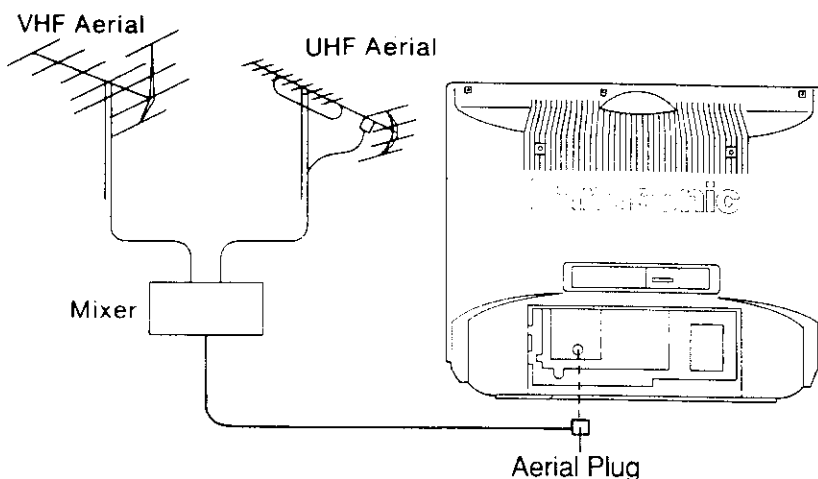
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# Before Operating this Set

## Preparations

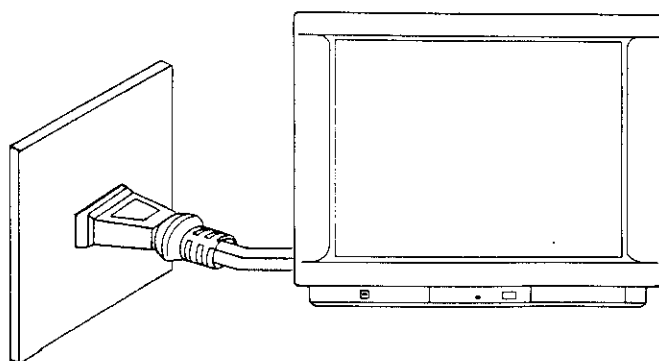
### Connect the Aerial Cable to the RF In Terminal



#### How to connect an Aerial

For connection details refer to page 18.

### Connect the Plug to the wall outlet



#### Connect the AC Plug to AC Outlet

This TV set can be operated on AC 230 V, 50 Hz.

#### Note:

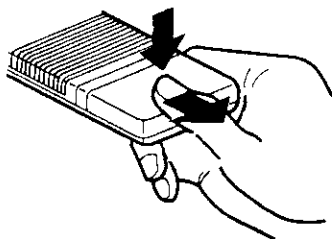
Remove the plug from the wall outlet when the TV set is not used for a prolonged period of time.

For Warnings and Cautions details, refer to page 78.

# Battery Installation and Replacement

## Batteries: Use two "R6" size batteries

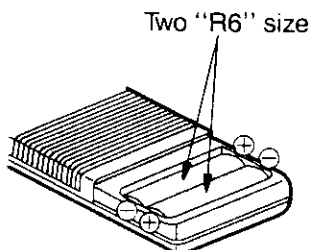
1



**Open the cover.**

Push down and remove the cover.

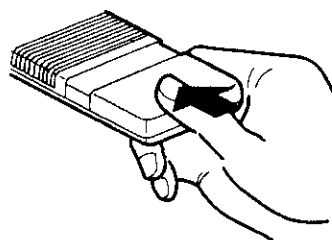
2



**Replace the batteries.**

Insert the batteries with the correct polarity as indicated by the "+" and "-" symbols.

3



**Replace the cover.**

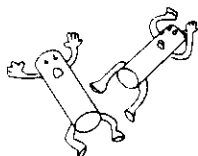
Do not use rechargeable (Ni-Cd) batteries.

They are partially different in shape and performance and may fail to ensure the desired function.

## Battery precautions

The incorrect use of batteries can cause electrolyte leakage which will corrode the remote control transmitter or cause the batteries to burst. The following precautions must be observed carefully.

Old Batteries



Replace both batteries at the same time.  
Dispose of them immediately.

New Batteries

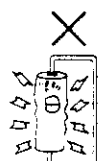


Don't mix battery types  
(alkaline with carbon zinc, etc.)

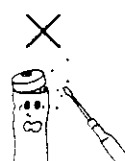
Don't



Recharge



Short-circuit



Disassemble

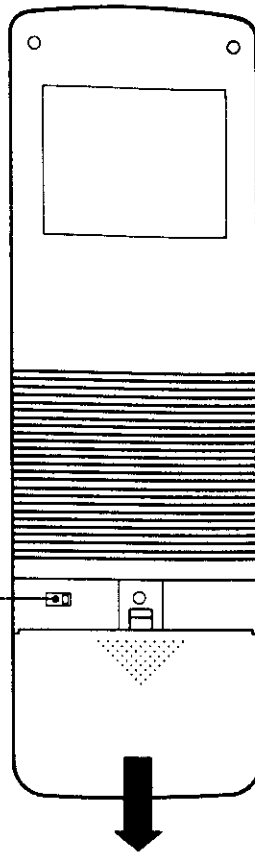


Heat or Burn

# VCR Mode Selection

( Rear )

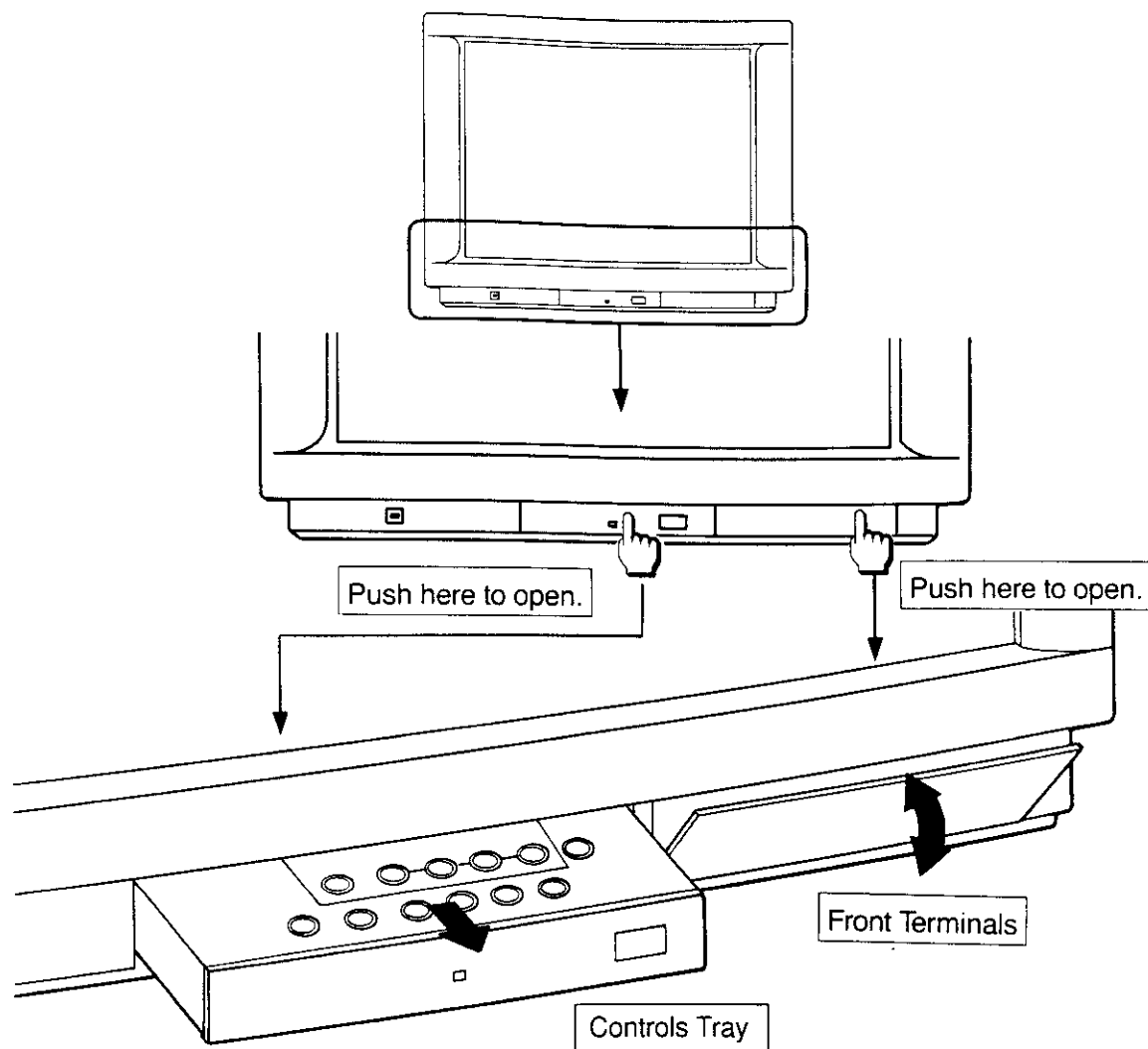
VCR Mode Select Switch  
When used with normal  
Panasonic/National VCR, set this switch  
to "6B".  
If operation cannot be carried out, set to  
"8B".



Open the cover  
(Push down and Slide the cover out.)

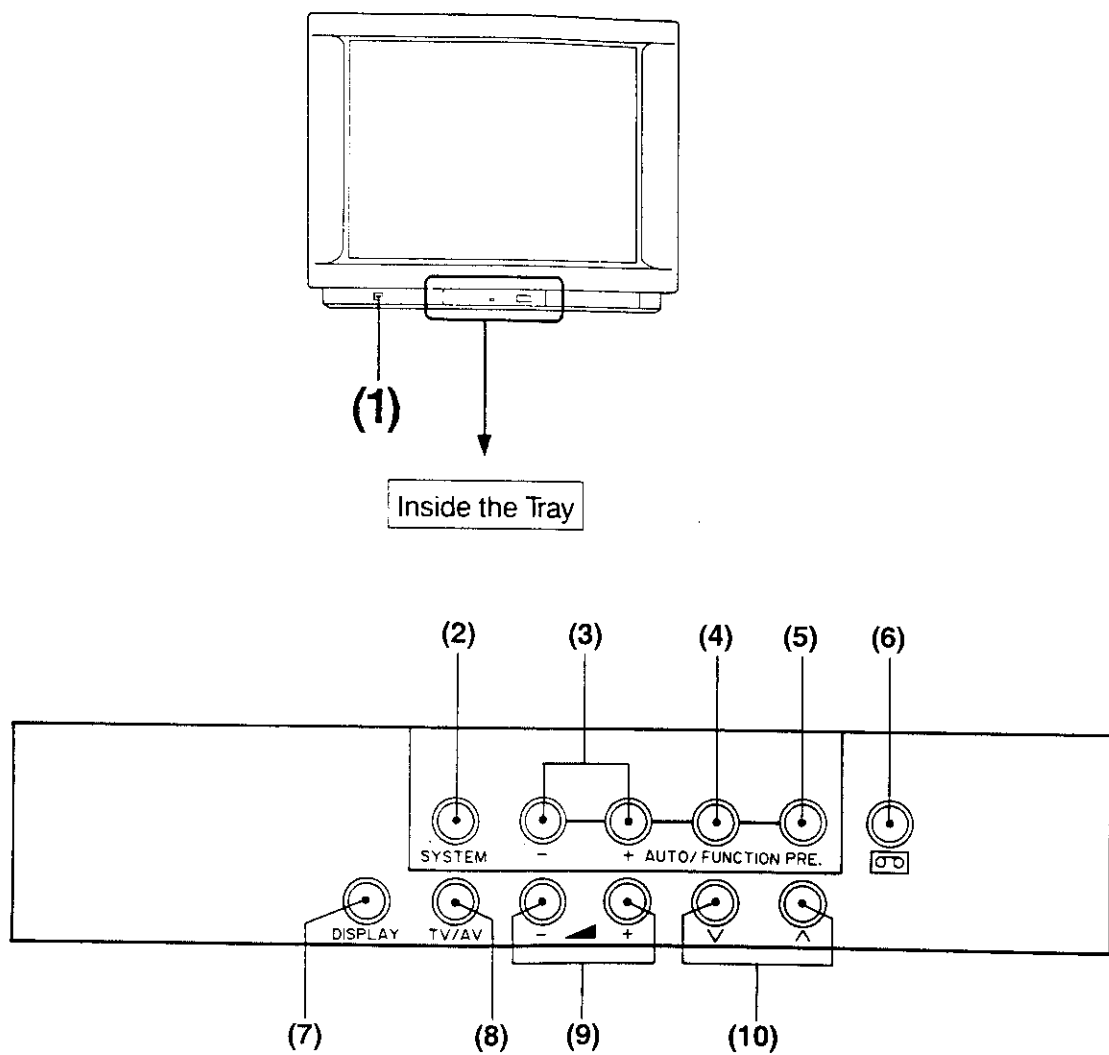
# How to Open the Controls panels

## How to Open the Controls Tray and Front Terminals



# Location of Controls for TV Set

## Inside the Tray





## Location of Controls for TV Set

| No. | Description |
|-----|-------------|
|-----|-------------|

|     |              |
|-----|--------------|
| (1) | Power Switch |
|-----|--------------|

|     |   |
|-----|---|
| (2) | System Selection Button (Colour System) |
|-----|---|

|     |                          |
|-----|--------------------------|
| (3) | Level Adjustment Buttons |
|-----|--------------------------|

|     |                      |
|-----|----------------------|
| (4) | Auto/Function Button |
|-----|----------------------|

|     |               |
|-----|---------------|
| (5) | Preset Button |
|-----|---------------|

|     |                      |
|-----|----------------------|
| (6) | Game Position Button |
|-----|----------------------|

|     |                |
|-----|----------------|
| (7) | Display Button |
|-----|----------------|

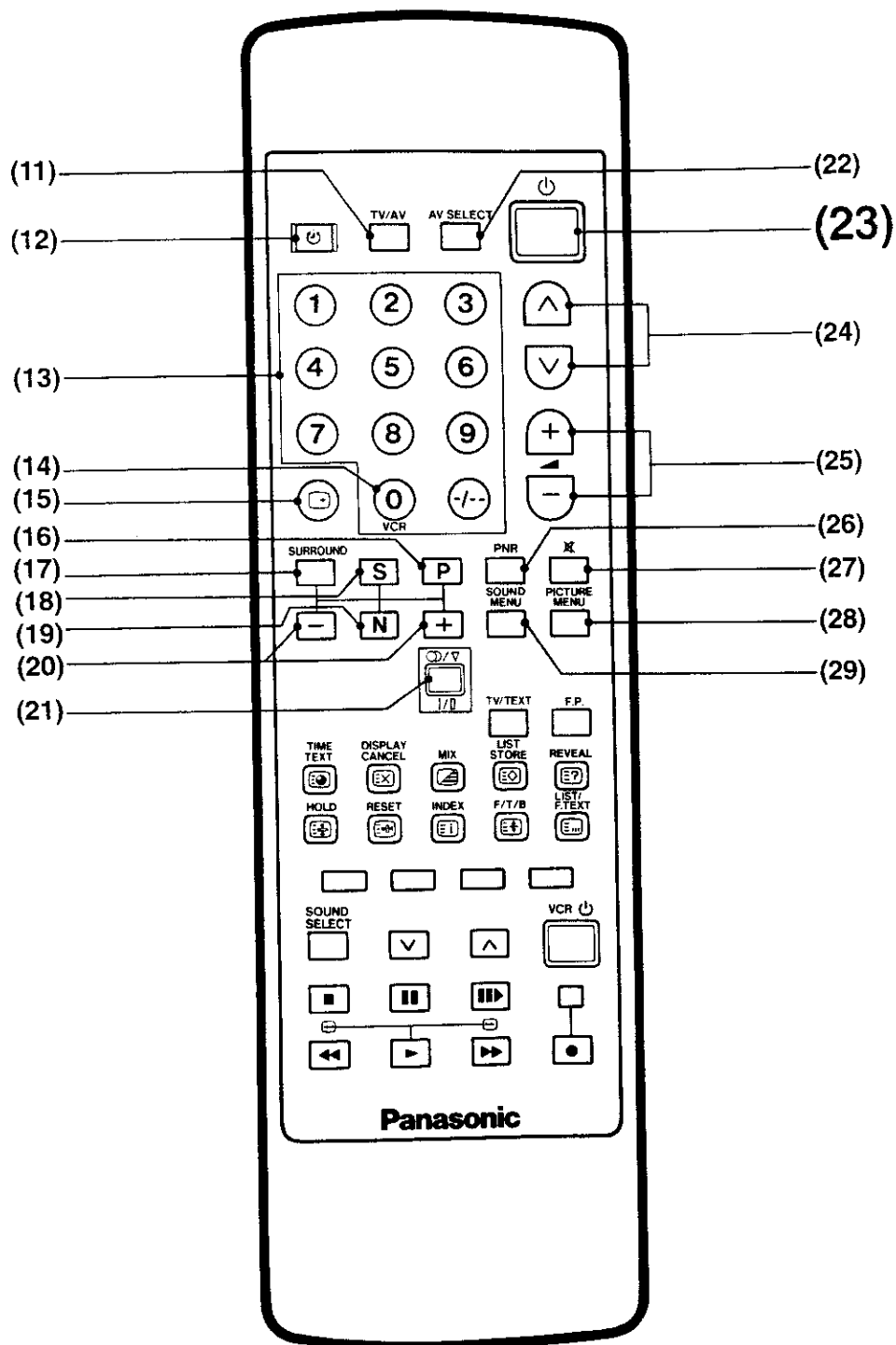
|     |                        |
|-----|------------------------|
| (8) | TV/AV Selection Button |
|-----|------------------------|

|     |                            |
|-----|----------------------------|
| (9) | Volume Up and Down Buttons |
|-----|----------------------------|

|      |                                      |
|------|--------------------------------------|
| (10) | Programme Number Up and Down Buttons |
|------|--------------------------------------|

# Location of Controls for Remote Control

## For Regular TV Operation



## Location of Controls for Remote Control

| No. | Description |
|-----|-------------|
|-----|-------------|

|      |                        |
|------|------------------------|
| (11) | TV/AV Selection Button |
|------|------------------------|

|      |                  |
|------|------------------|
| (12) | Off-Timer Button |
|------|------------------|

|      |   |
|------|---|
| (13) | Direct Programme Number Selection Buttons |
|------|---|

|      |              |
|------|--------------|
| (14) | O/VCR Button |
|------|--------------|

|      |               |
|------|---------------|
| (15) | Recall Button |
|------|---------------|

|      |                         |
|------|-------------------------|
| (16) | Picture Function Button |
|------|-------------------------|

|      |                 |
|------|-----------------|
| (17) | Surround Button |
|------|-----------------|

|      |                       |
|------|-----------------------|
| (18) | Sound Function Button |
|------|-----------------------|

|      |                      |
|------|----------------------|
| (19) | Normalisation Button |
|------|----------------------|

|      |                                    |
|------|------------------------------------|
| (20) | Function level Up and Down Buttons |
|------|------------------------------------|

|      |                              |
|------|------------------------------|
| (21) | NICAM Sound Selection Button |
|------|------------------------------|

|      |                     |
|------|---------------------|
| (22) | AV Selection Button |
|------|---------------------|

|                                     |  |
|-------------------------------------|--|
| <b>(23) Power (Stand-by) Button</b> |  |
|-------------------------------------|--|

|      |                                      |
|------|--------------------------------------|
| (24) | Programme Number Up and Down Buttons |
|------|--------------------------------------|

|      |                            |
|------|----------------------------|
| (25) | Volume Up and Down Buttons |
|------|----------------------------|

|      |                                |
|------|--------------------------------|
| (26) | Picture Noise Reduction Button |
|------|--------------------------------|

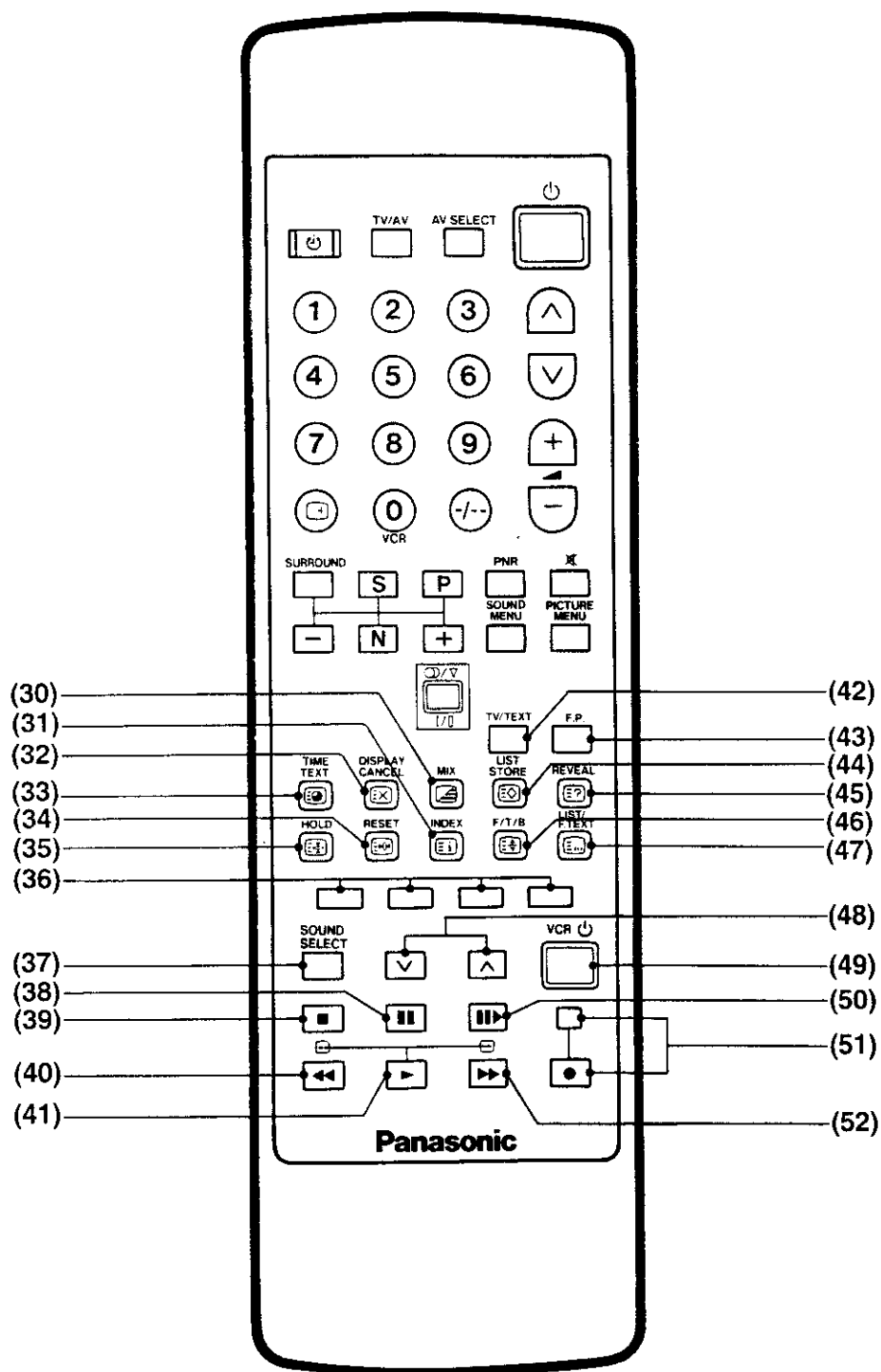
|      |             |
|------|-------------|
| (27) | Mute Button |
|------|-------------|

|      |                     |
|------|---------------------|
| (28) | Picture Menu Button |
|------|---------------------|

|      |                   |
|------|-------------------|
| (29) | Sound Menu Button |
|------|-------------------|

## Location of Controls for Remote Control

### For Teletext and VCR Operation



## Location of Controls for Remote Control

| No. | Description |
|-----|-------------|
|-----|-------------|

|      |            |
|------|------------|
| (30) | Mix Button |
|------|------------|

|      |              |
|------|--------------|
| (31) | Index Button |
|------|--------------|

|      |                       |
|------|-----------------------|
| (32) | Display Cancel Button |
|------|-----------------------|

|      |                  |
|------|------------------|
| (33) | Time Text Button |
|------|------------------|

|      |              |
|------|--------------|
| (34) | Reset Button |
|------|--------------|

|      |             |
|------|-------------|
| (35) | Hold Button |
|------|-------------|

|      |                      |
|------|----------------------|
| (36) | Colour-coded Buttons |
|------|----------------------|

|      |                                |
|------|--------------------------------|
| (37) | Sound Selection Button for VCR |
|------|--------------------------------|

|      |                    |
|------|--------------------|
| (38) | Pause Still Button |
|------|--------------------|

|      |             |
|------|-------------|
| (39) | Stop Button |
|------|-------------|

|      |                      |
|------|----------------------|
| (40) | Rewind/Review Button |
|------|----------------------|

|      |             |
|------|-------------|
| (41) | Play Button |
|------|-------------|

|      |                          |
|------|--------------------------|
| (42) | TV/TEXT Selection Button |
|------|--------------------------|

|      |                                |
|------|--------------------------------|
| (43) | Favorite Page Selection Button |
|------|--------------------------------|

|      |                   |
|------|-------------------|
| (44) | List Store Button |
|------|-------------------|

|      |               |
|------|---------------|
| (45) | Reveal Button |
|------|---------------|

|      |                        |
|------|------------------------|
| (46) | Full/Top/Bottom Button |
|------|------------------------|

|      |                     |
|------|---------------------|
| (47) | List/F. TEXT Button |
|------|---------------------|

|      |  |
|------|--|
| (48) | Programme Number Up and Down Buttons for VCR |
|------|--|

|      |                  |
|------|------------------|
| (49) | VCR Power Button |
|------|------------------|

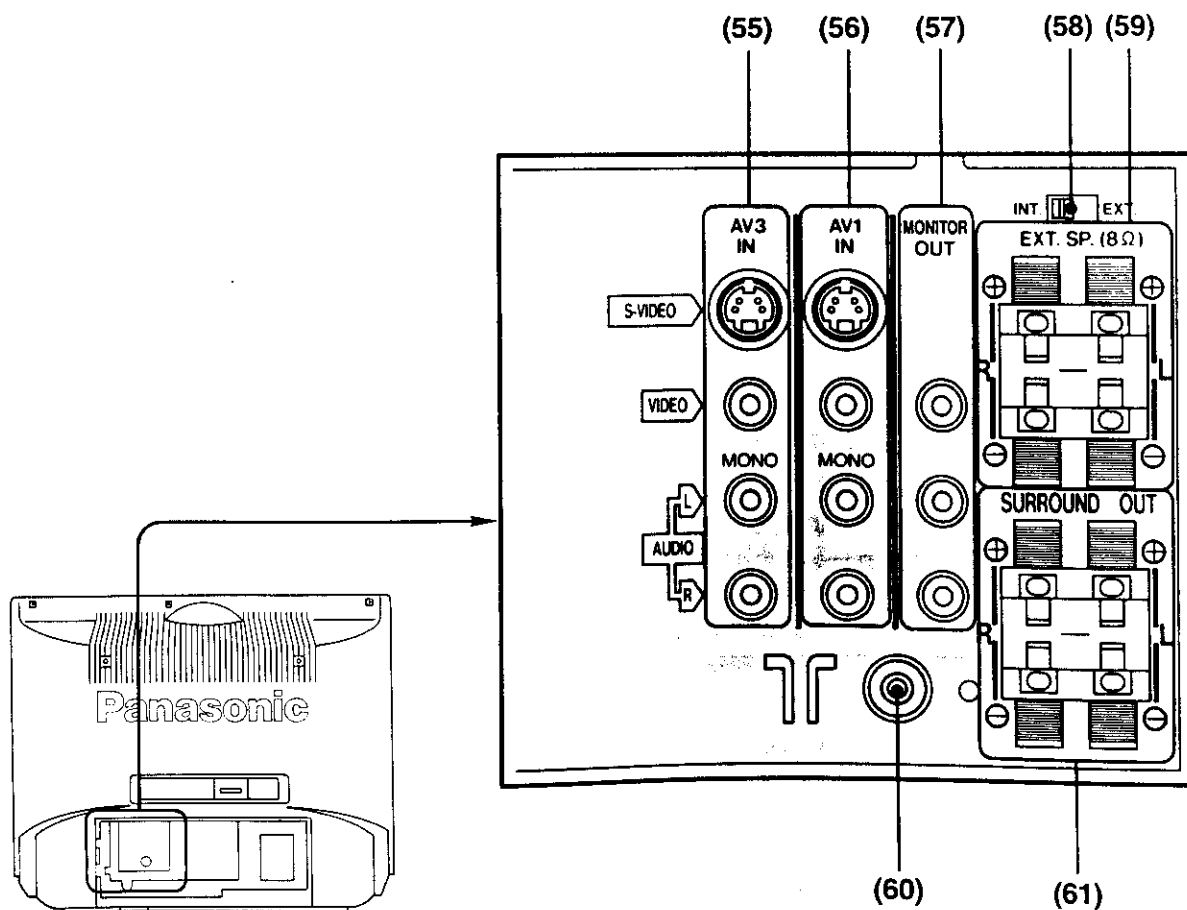
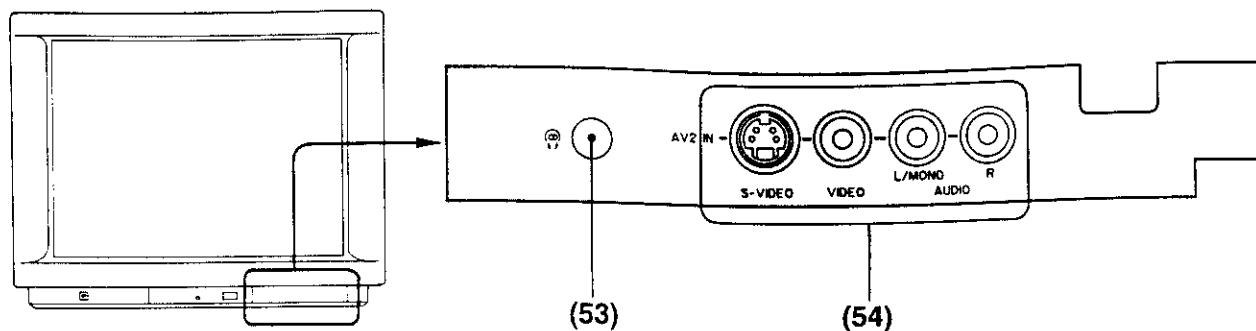
|      |                      |
|------|----------------------|
| (50) | Still Advance Button |
|------|----------------------|

|      |                |
|------|----------------|
| (51) | Record Buttons |
|------|----------------|

|      |                     |
|------|---------------------|
| (52) | Fast Forward Button |
|------|---------------------|

# Location of Terminals

## Location of Front and Rear Terminals



## Location of Terminals

| No. | Description |
|-----|-------------|
|-----|-------------|

|      |                 |
|------|-----------------|
| (53) | Headphones Jack |
|------|-----------------|

|      |                      |
|------|----------------------|
| (54) | AV 2 Input Terminals |
|------|----------------------|

|      |                      |
|------|----------------------|
| (55) | AV 3 Input Terminals |
|------|----------------------|

|      |                      |
|------|----------------------|
| (56) | AV 1 Input Terminals |
|------|----------------------|

|      |                          |
|------|--------------------------|
| (57) | Monitor Output Terminals |
|------|--------------------------|

|      |                          |
|------|--------------------------|
| (58) | Speaker Selection Switch |
|------|--------------------------|

|      |                            |
|------|----------------------------|
| (59) | External Speaker Terminals |
|------|----------------------------|

|      |                 |
|------|-----------------|
| (60) | Aerial Terminal |
|------|-----------------|

|      |                            |
|------|----------------------------|
| (61) | Surround Speaker Terminals |
|------|----------------------------|

# How to Connect an Aerial

To obtain the best quality picture and sound, an Aerial, the correct cable (75 Ohm coaxial) and the correct terminating plug will be required.

If a communal Aerial system is used, you may require the correct connection cable and plug between the wall Aerial socket and your television receiver.

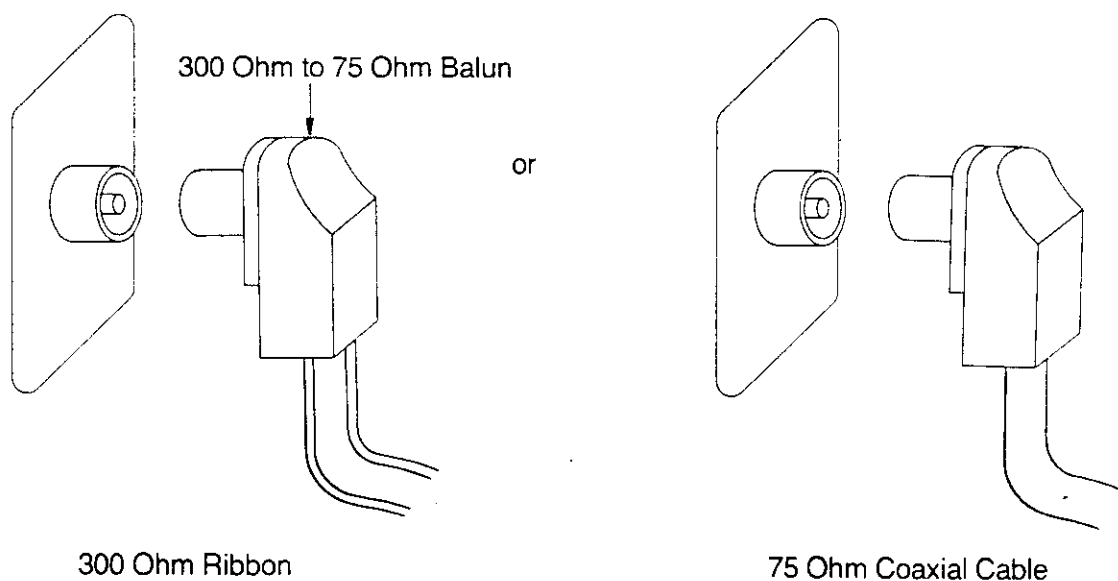
Your local Television Service Agent or Dealer may be able to assist you in obtaining the correct Aerial system for your particular area and any accessories required.

Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of the customer.

**Note:**

If your existing Aerial system uses 300 Ohm ribbon cable you will require to use a 300 Ohm to 75 Ohm Balun.

See below.





# Automatic Turn-off Function

## Noise Timer

If the set is not switched off when the TV station stops broadcasting, it will automatically go to stand-by condition after 30 minutes.

**Note:**

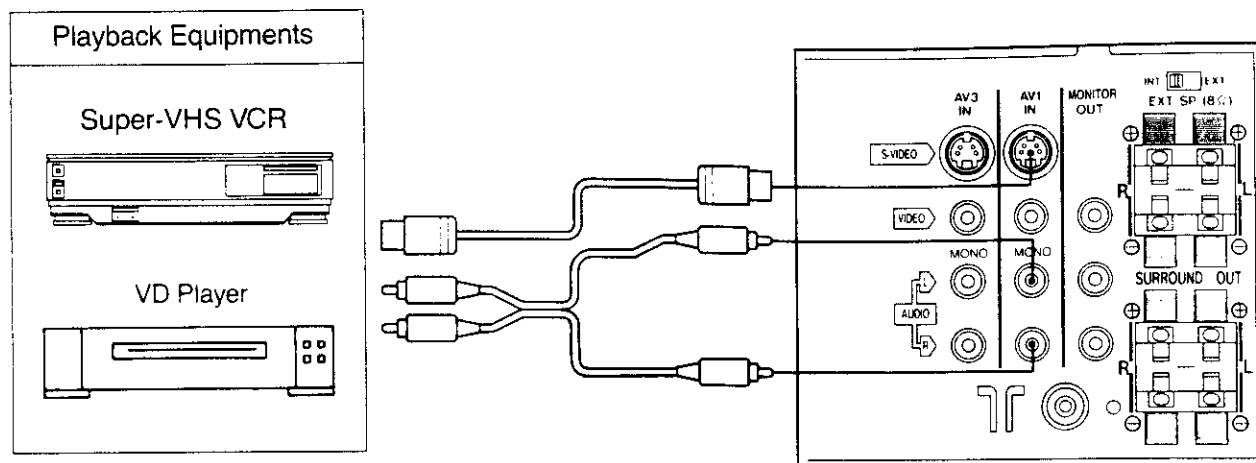
This function will not operate when the Television receiver is on AV mode.

# Connection

## Pattern 1: Via the S-Video and Audio Terminals

(e.g. Connecting the "AV1" mode)

Connect the "AV1" (S-Video and Audio) Terminals and Other Equipments as follows.

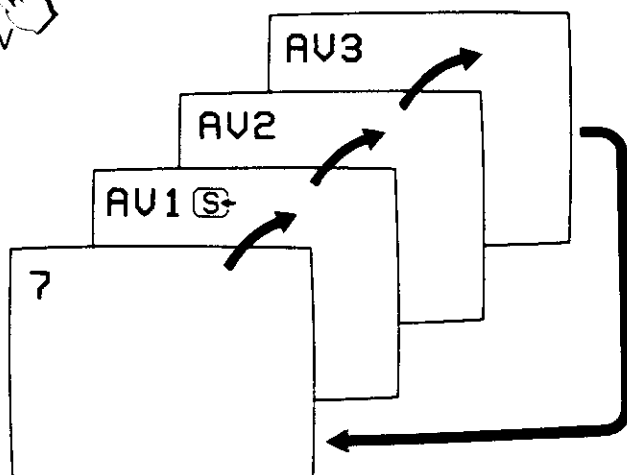


## AV mode Select Operation on the TV Set

1



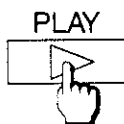
By pushing the "TV/AV Selection" Button, you can sequentially select TV and three AV modes (AV1, AV2 and AV3), as shown below. Selecting mode will appear on the top left of the screen.



### Note:

When the S-Video cable is connected to "S-Video" Terminal, the "S-Video" symbol will be displayed on the screen as shown left.  
e.g. Connecting the AV1 (S-Video) Terminal.

2



Push the "PLAY" Button on the Connected Equipment.

## Connection

### AV mode Select Operation on the Remote Control

1

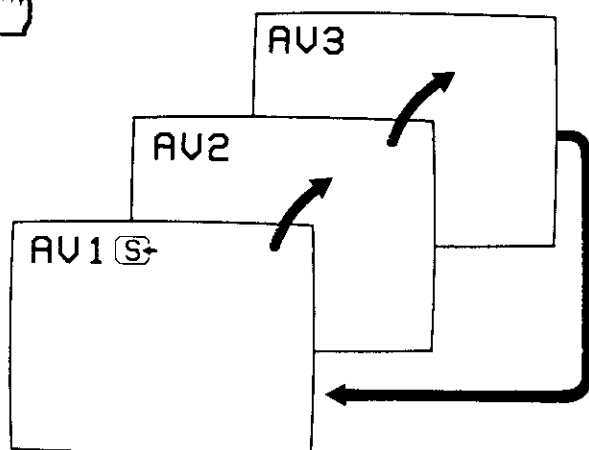


Push the "TV/AV Selection" Button on the Remote Control.  
Then last selected AV mode will be displayed on the screen.

2



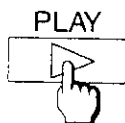
By pushing the "AV Selection" Button, you can sequentially select three AV modes, as shown below.



**Note:**

When the S-Video cable is connected to "S-Video" Terminal, the "S-Video" symbol will be displayed on the screen as shown left.  
e.g. Connecting the AV1 (S-Video) Terminal.

3



Push the "PLAY" Button on the Connected Equipment.

### Helpful Hint



**System Button**

On the AV mode, if the clear picture cannot be obtained even when the AV signal is received, push the System Button repeatedly until the optimum image can be produced.

For operation details, refer to "System Select Operation" on page 41.

**Note:**

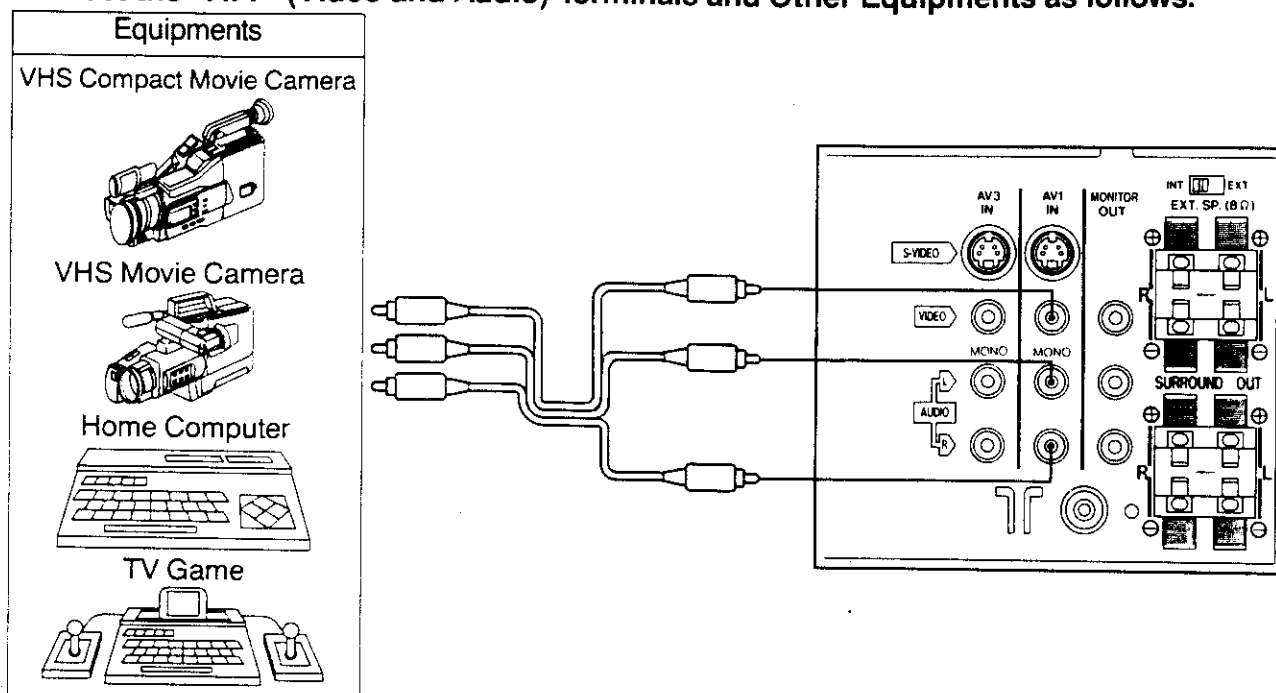
- (1) When AV mode (AV1, AV2 and AV3) is selected and the selected AV mode has no AV signal, the colour on TV screen will appear according to the receiving Colour System.  
(Refer to page 41 for details of Colour System)
- (2) When the S-Video cable is connected to S-Video Terminal, Input Terminal will be changed from Video to S-Video Terminal.
- (3) When the Monaural VCR is played back, Connect the Monaural Audio cable to the Audio "L" (Left) Terminal.

# Connection

## Pattern 2: Via the Video and Audio Terminals

(e.g. Connecting the AV1 mode)

Connect the "AV1" (Video and Audio) Terminals and Other Equipments as follows.

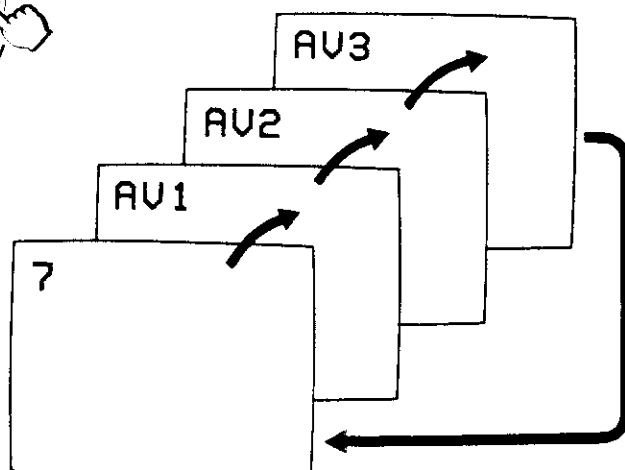


## AV mode Select Operation on the TV Set

1

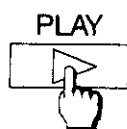


By pushing the "TV/AV Selection" Button, you can sequentially select TV and three AV modes (AV1, AV2 and AV3), as shown below.



Selecting mode will appear on the top left of the screen.

2



Push the "PLAY" Button on the Connected Equipment.

## Connection

### AV mode Select Operation on the Remote Control

1

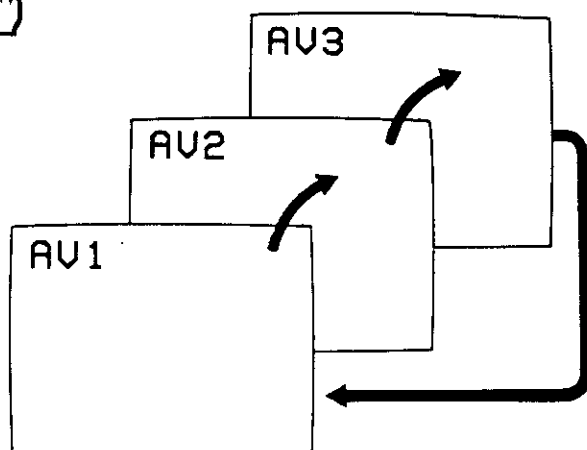


Push the "TV/AV Selection" Button on the Remote Control.  
Then last selected AV mode will be displayed on the screen.

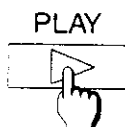
2



By pushing the "AV Selection" Button, you can sequentially select three AV modes, as shown below.



3



Push the "PLAY" Button on the Connected Equipment.

### Helpful Hint



#### System Button

On the AV mode, if the clear picture cannot be obtained even when the AV signal is received, push the System Button repeatedly until the optimum image can be produced.

For operation details, refer to "System Select Operation" on page 41.

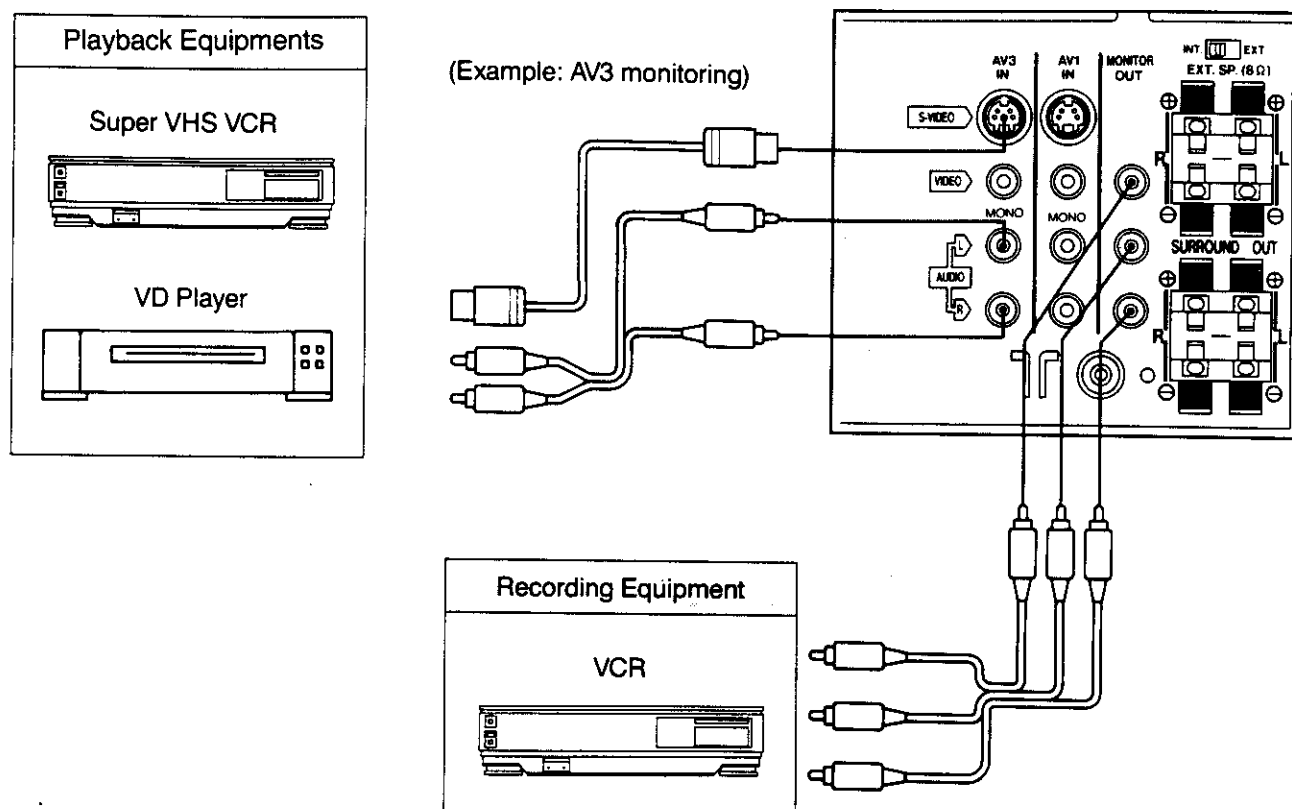
#### Note:

- (1) When AV mode (AV1, AV2 and AV3) is selected and the selected AV mode has no AV signal, the colour on TV screen will appear according to the receiving Colour System.  
(Refer to page 41 for details of Colour System)
- (2) When the S-Video cable is connected to S-Video Terminal, Input Terminal will be changed from Video to S-Video Terminal.
- (3) When the Monaural VCR is played back, Connect the Monaural Audio cable to the Audio "L" (Left) Terminal.

# Connection

## Pattern 3: Via the "Monitor Out" Terminals

Connect the "Playback" Equipment and "Recording" Equipment via the TV set as follows.



"Monitor Out" Terminals contain signals which are on the TV screen at that time, e.g. TV programmes or signals from AV1, AV2 or AV3 input.

## Operation

- 1 Select the desired AV mode.  
In this case, select the AV3 mode.  
For Operation details refer to page 20 through 23.
- 2 Push the "PLAY" Button on the Connected Equipment.

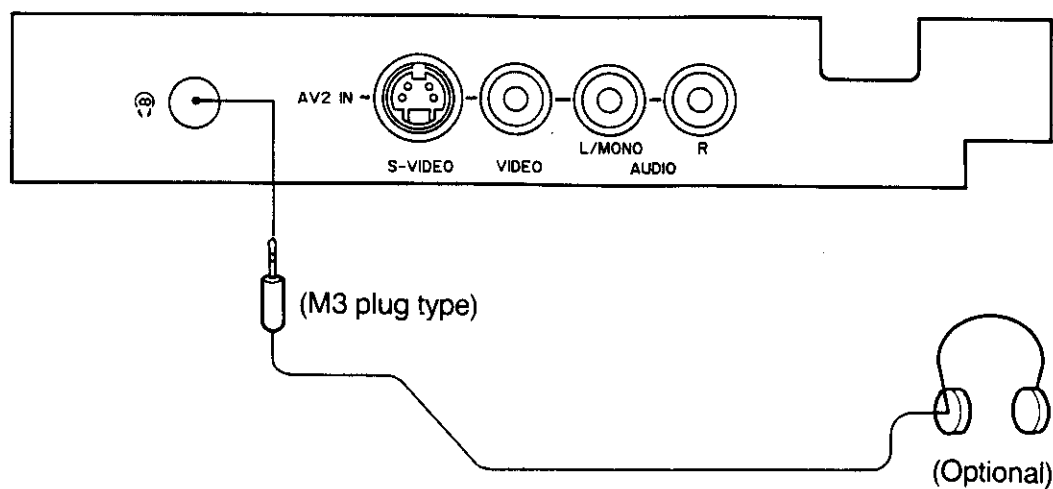
### Note:

Never connect the same video recorder with both the VIDEO IN and VIDEO OUT Terminals on this TV set, as this would cause malfunction and could lead to accidents.

## Connection

### Connecting the Headphones

- 1 Connecting the headphones as follows.

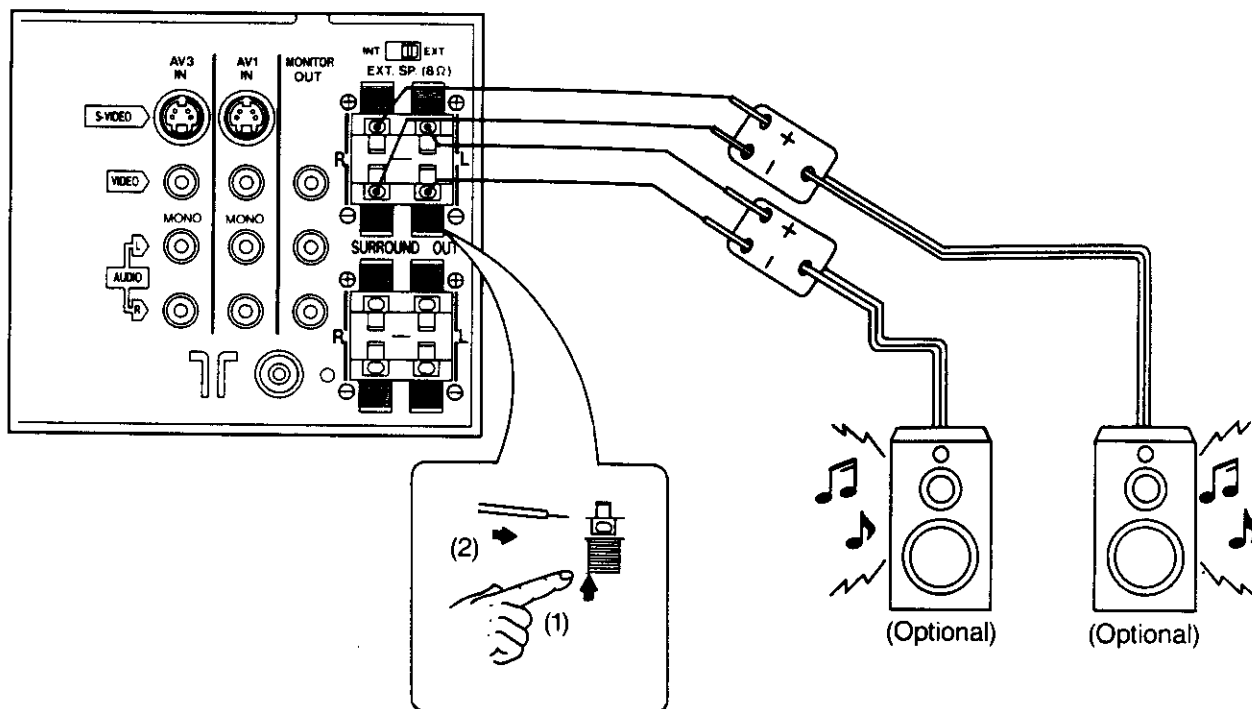


When the Headphones plug is inserted into the Headphones jack, no sound is heard from the speakers, and you can listen with the Headphones only.

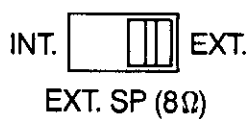
# Connection

## Connecting the External Speakers

- 1** Connecting the external speakers as follows.



## 2



Set the "EXT." Position.  
"INT." Position: Internal speakers is selected.  
"EXT." Position: External speakers is selected.

### Note:

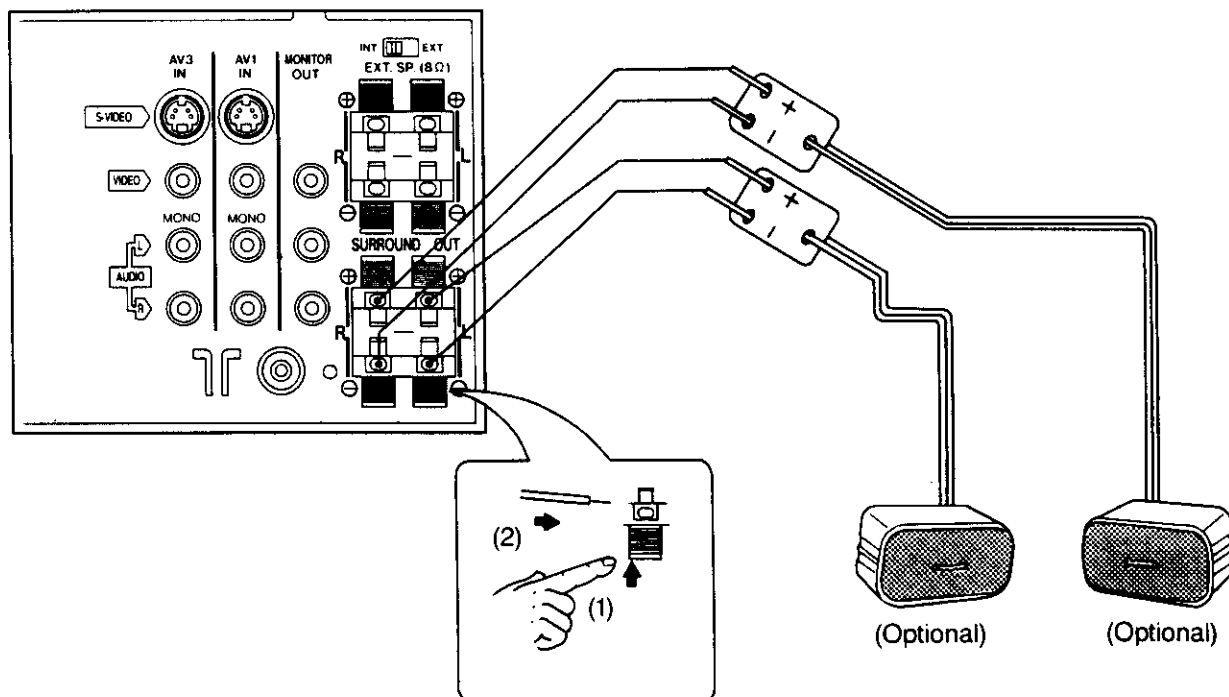
- (1) If speakers cause disturbance in picture purity, locate the speakers as far as possible from the TV set.
- (2) If speaker terminals are shorted, sound will be cut off.  
Turn the TV set off then turn on again to reset the protection circuit.
- (3) External speakers impedance 8Ω.



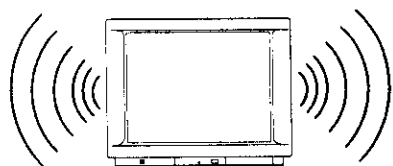
# Connection

## Connecting the Surround Speakers

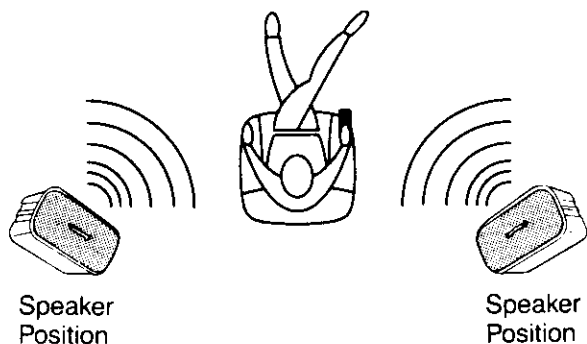
- 1 Connecting the surround speakers as follows.



AV surround effect is further enhanced upon connecting surround type speakers. Although it is possible to enjoy the "AV Surround Effect" with this unit alone, upon connecting separate "Surround Speakers" the presence of the enveloping sound becomes more vivid.



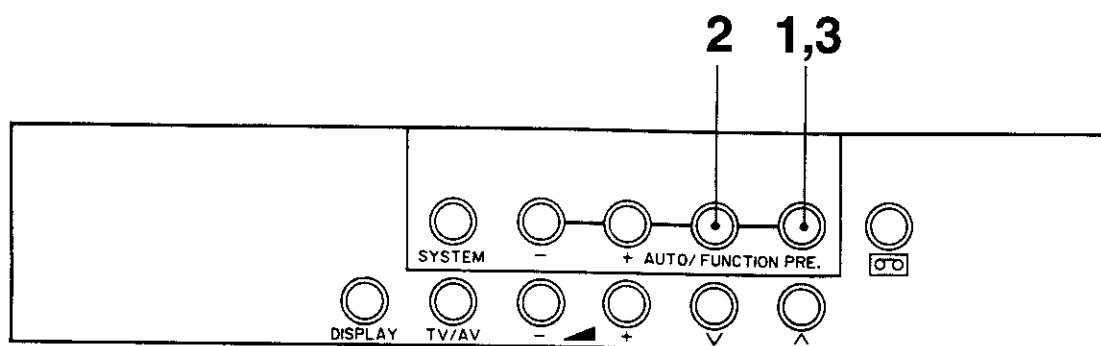
Place the surround speakers as shown left.



**Note:**

For Surround Operation details, refer to page 54 through 57.

# Tuning Procedure (Automatic Search)



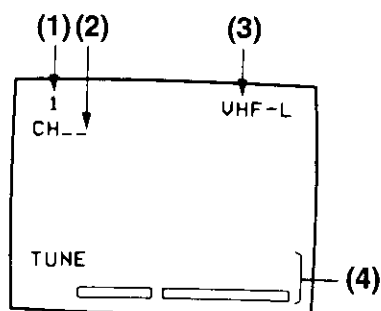
This TV set will search automatically through all of the VHF and UHF bands. After completion, the best tuning position is automatically memorized on each Programme Number.

(TV set must be turned on.)

**1**



Push the "PRE." (PRESET) Button until the on-screen display will appear as shown below.



- (1) Programme Position Number
- (2) Programme Name Writing
- (3) Band
- (4) Tuning bar

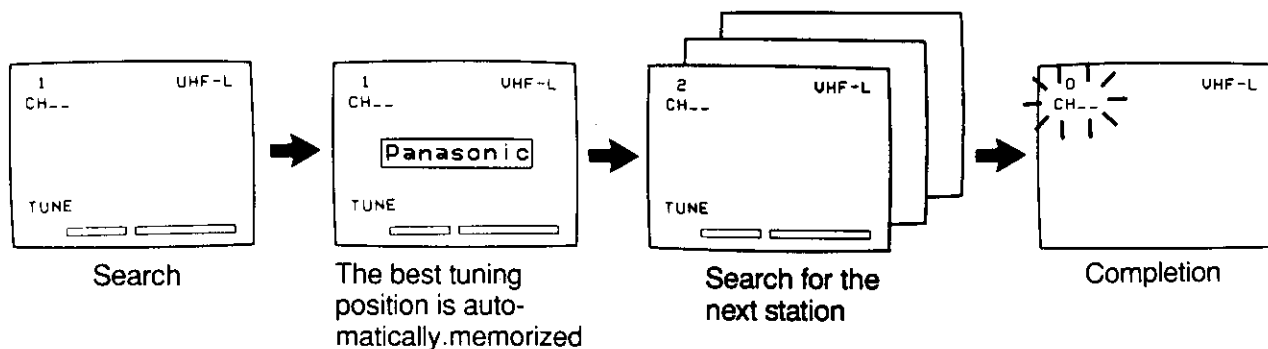
## Tuning Procedure (Automatic Search)

2



AUTO/FUNCTION

Push the "Auto/Function" Button.



3



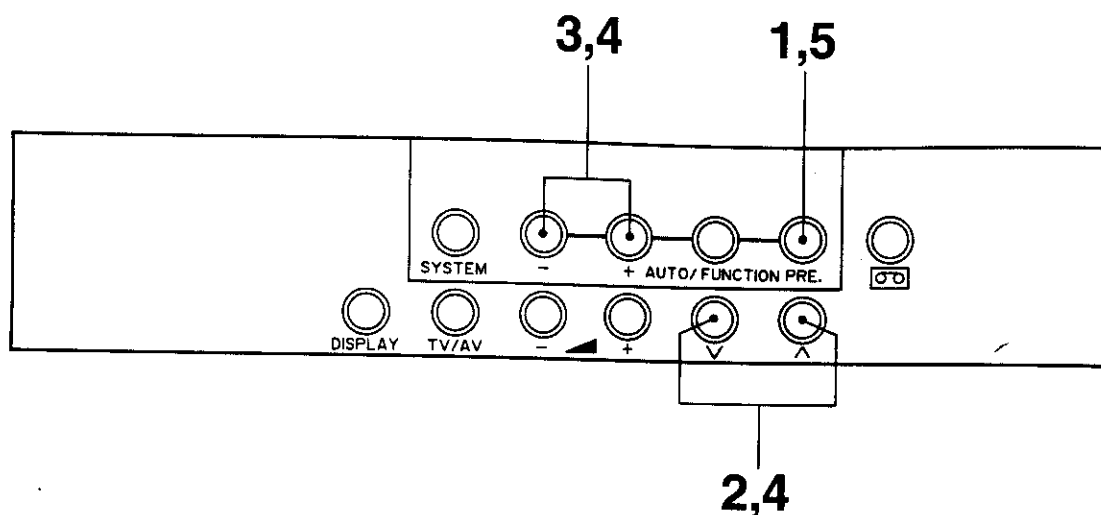
PRE.

Return the TV set to the normal operation mode by pushing this button twice.  
A maximum of 30 channels can be programmed.

### Helpful Hint

- (1) If you need the station name on the screen display together with programme position, refer to the Programme Name Writing operation on page 36 and 37 for operation details.
- (2) After all stations are tuned, push the Programme Number "Up" Button to confirm the tuning condition for each programme position. If Programme Position is undesired, it is possible to skip the Programme Number. Please refer to the Programme Number Skip operation on page 38 and 39.

# Tuning Procedure (Manual Search)



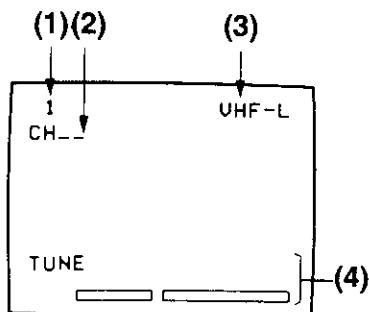
In case only few TV broadcastings can be received in your area, this Manual Search operation may be preferable.

(TV set must be turned on.)

**1**



Push the "PRE." (PRESET) Button until the on-screen display will appear as shown below.



- (1) Programme Position Number
- (2) Programme Name Writing
- (3) Band
- (4) Tuning bar

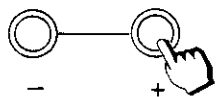
## Tuning Procedure (Manual Search)

2



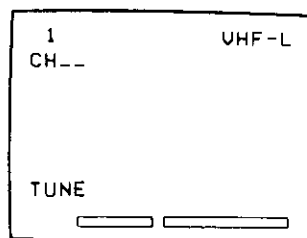
Push either the Programme Number Up “^” or Down “v” Button to select the desired programme number on which you want to tune the TV station of your choice.

3

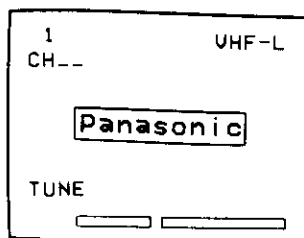


Upward Search

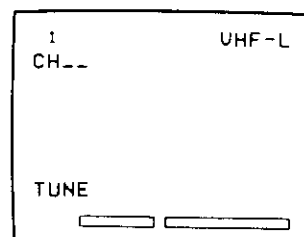
Push either the Level Adjustment UP “+” or Down “-” Button, the TV station broadcasting on the next higher or lower frequency will be automatically tuned and memorized.



Search



The best tuning position is automatically memorized



If an undesired TV station is received, push the same button again until the desired TV station is tuned.

4

Repeat steps 2 and 3 to tune all the available TV stations on the remaining programme numbers.

**Note:**

Ensure that a new programme number is set (Step 2) before tuning the next station.

5



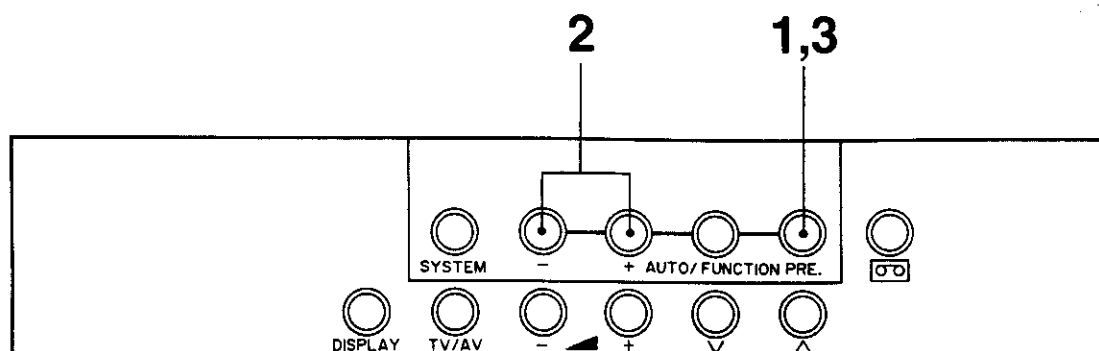
Return the TV set to the normal operation mode by pushing this button three times.

A maximum of 30 channels can be programmed.

## Helpful Hint

- (1) If you need the station name on the screen display together with programme position, refer to the Programme Name Writing operation on page 36 and 37 for operation details.
- (2) After all stations are tuned, push the Programme Number “Up” Button to confirm the tuning condition for each programme position. If Programme Position is undesired, it is possible to skip the Programme Number. Please refer to the Programme Number Skip operation on page 38 and 39.

# Fine Tuning Operation



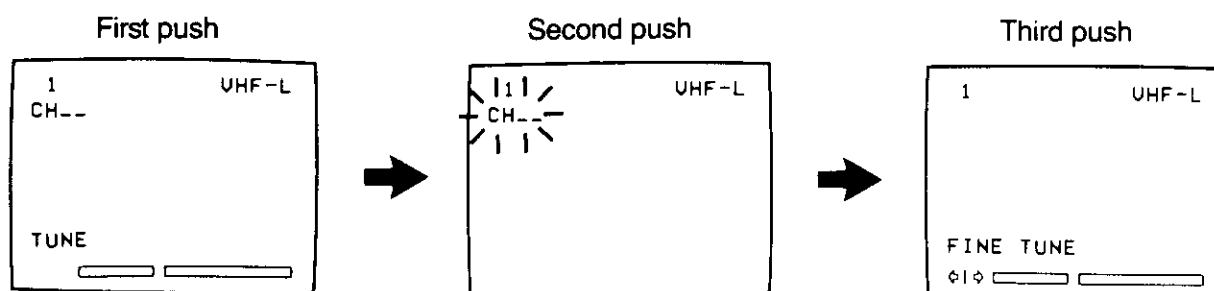
Under normal reception conditions this function is not used. However, in areas of poor reception or constant interference, a slight adjustment of the tuning may improve the picture and sound quality.

(TV set must be turned on.)

1

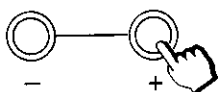


Push the "PRE." (PRESET) Button three times.  
The on-screen display will appear as shown below.



## Fine Tuning Operation

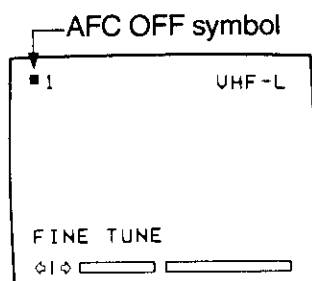
2



Push and hold the Level Adjustment Up "+" or Down "-" Button until picture and sound are improved.

When the above fine tuning operation has been performed, the AFC function is deactivated, so that the "■" symbol appears to the left of the Programme Number.

The on-screen display will appear as shown below.



3



Return the TV set to the normal operation mode by pushing this button once.

## Fine Tuning cancel operation

Activating the AFC (Automatic Frequency Control) Function.

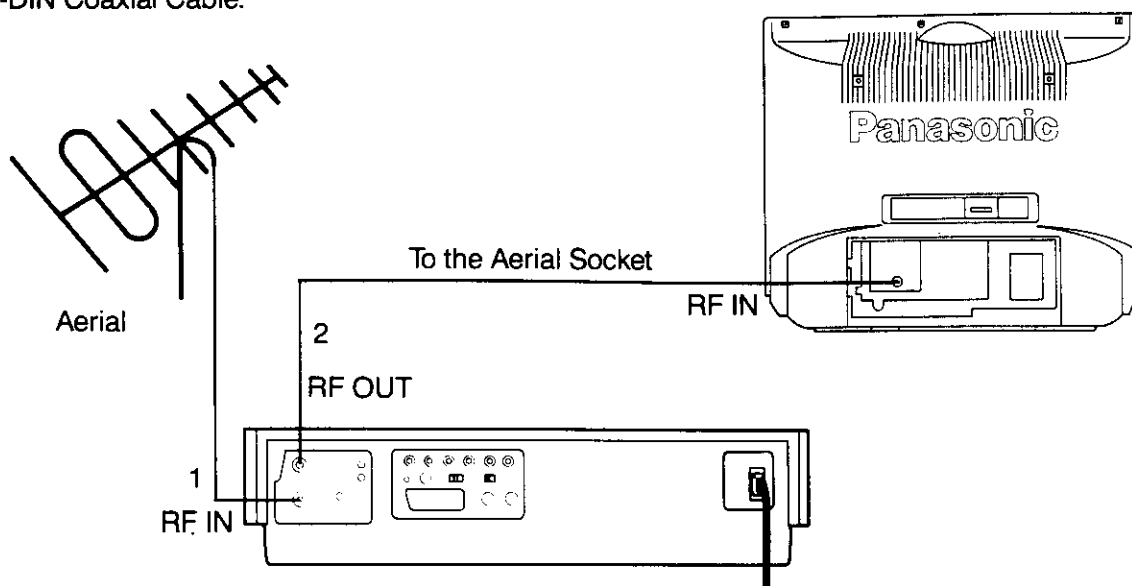
If you later want to reset this Programme Number to the automatically tuned condition with activated AFC function, perform the following operation step.

- (1) Select the programme position conditioned on the AFC off position.
- (2) Operate the Tuning procedure (Manual Search). Refer to page 30 and 31.

# Tuning the TV Set to the VCR

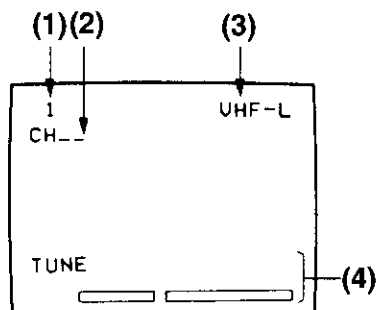
## Connection

1. Connect the external aerial to the RF Input Socket on the VCR.
2. Connect the aerial terminal on the TV set to the RF Output Socket on the VCR with the supplied DIN-DIN Coaxial Cable.



The adjustments described on this page are not necessary, if the VCR is connected to the TV set via the Video/Audio output sockets.

1



Push the "PRE." (PRESET) Button on the TV set until the on-screen display will appear as shown below.

- (1) Programme Position Number
- (2) Programme Name Writing
- (3) Band
- (4) Tuning bar

2



Select the "VCR" position by using "0/VCR" Button on the Remote Control.



## Tuning the TV Set to the VCR

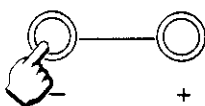
3

Push the VCR On/Off Button on the VCR to turn the VCR On.

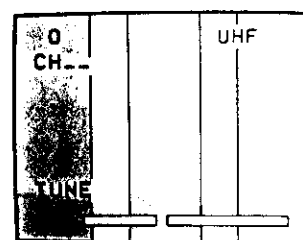
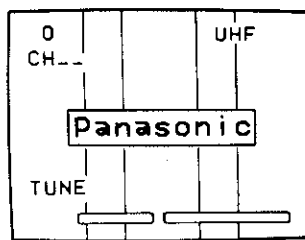
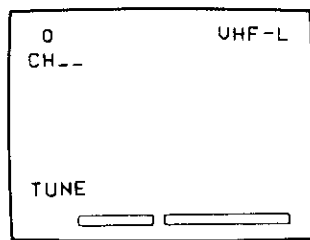
4

Set the "Test Signal" Switch to "TEST" position on the VCR.

5



Push the MANU. Down "—" Button on the TV set, the TV station broadcasting on the UHF will be automatically tuned and memorized. Confirm on the TV set that the received test pattern is as shown.



**Note:**

This test pattern is used on the Panasonic/National VCR only.

6



Return the TV set to the normal operation mode by pushing this button three times.

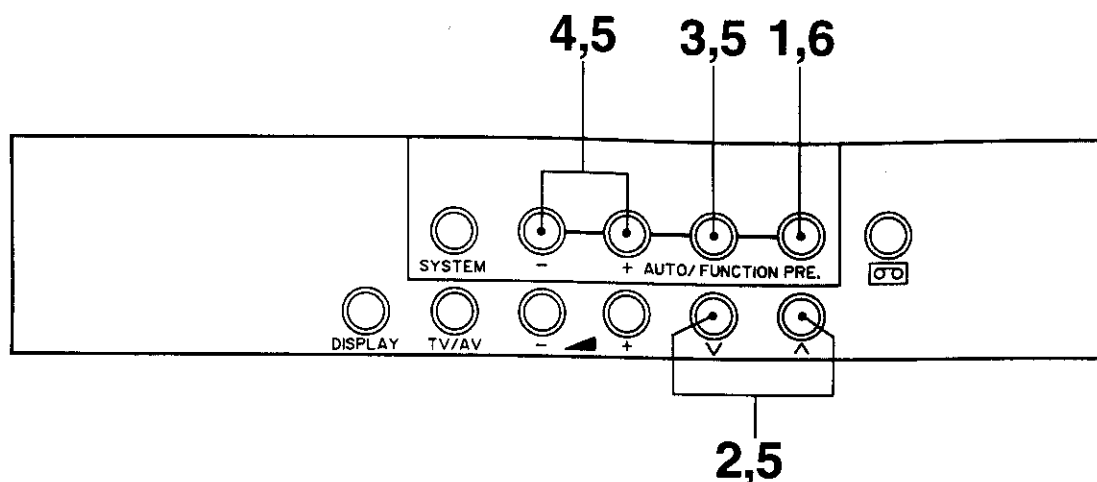
7

Set the "Test Signal" switch to "Off" on the VCR.  
The TV is now ready to receive the RF output signal from the VCR.

### Helpful Hint

If you want the station name on the screen display together with program details, refer to the Programme Name Writing operation on page 36 and 37.

# Programme Name Writing Operation



This function is used, if you want to write the Programme Name on each Programme Number.

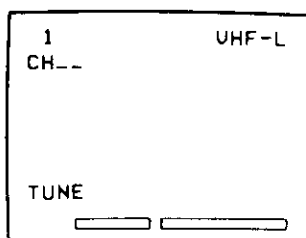
(TV set must be turned on.)

**1**

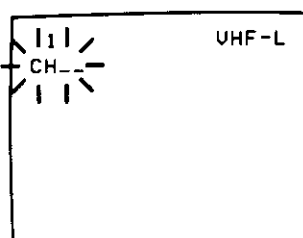


Push the "PRE." (PRESET) Button twice.  
The on-screen display will appear as shown below.

First push



Second push



## Programme Name Writing Operation

2



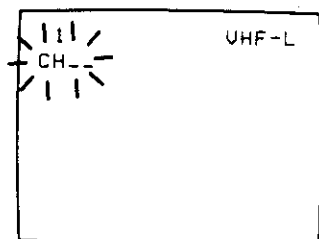
Select your desired programme number position.

3

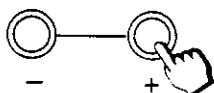


By pushing this button, you can select one of the four columns as follows.

Each time this button is pushed, the next column selected will be flashing.



4



Select your desired character by pushing these buttons. Each time "+" Button is pushed, the character will be changed as follows.

0→1→2.....8→9→A→B.....X→Y→Z→ -

Each time "-" Button is pushed, the character will be changed in reverse direction.

5

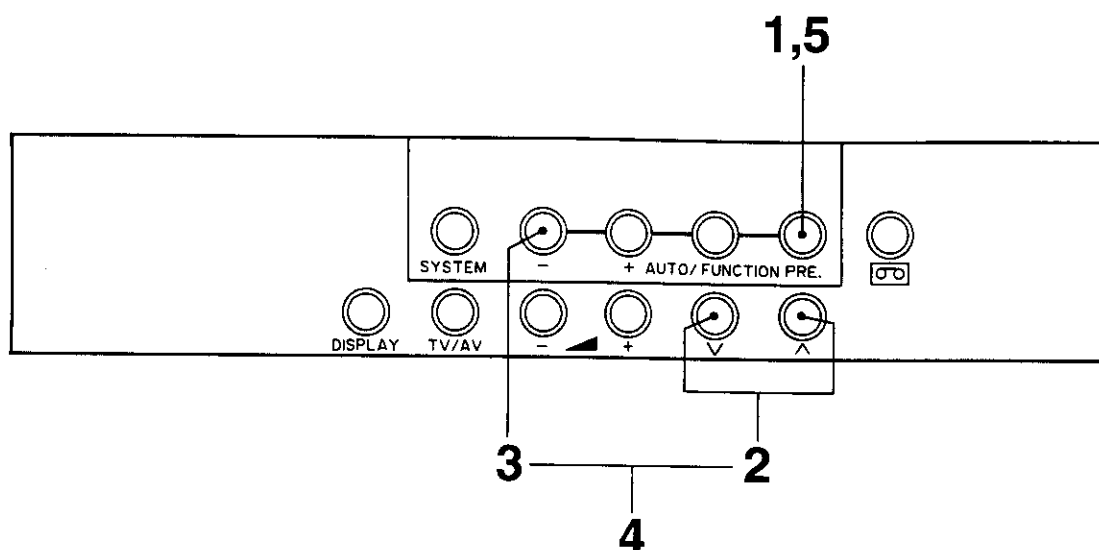
Repeat steps 2 through 4 for the remaining programme positions.

6



After the Programme Name Writing operation is completed, push the "PRE." (PRESET) Button twice.

# Programme Number Skip Operation



This function makes it possible to skip the programme numbers on which no TV station are tuned. This function is only effective when selecting TV station by pushing the programme number Up or Down Button either on the TV set or the Remote control.

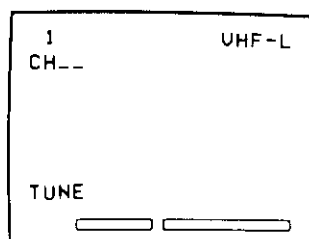
(TV set must be turned on)

**1**

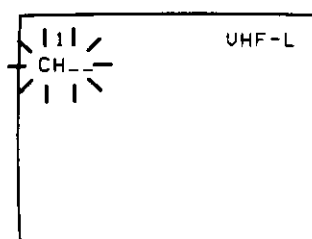


Push the "PRE." (PRESET) Button twice.  
The on-screen display will appear as shown below.

First push



Second push



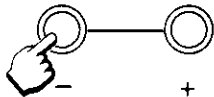
## Programme Number Skip Operation

2

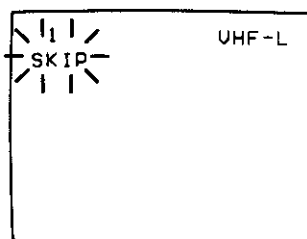
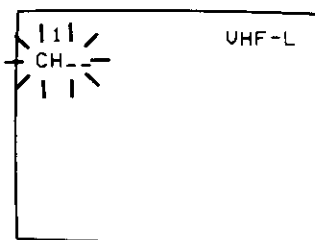


Select a programme number you want to skip.

3



Push the “-” Button.  
The on-screen display will be changed as shown below.



The “SKIP” Indicator will appear.  
Then Skip function is set on a programme position.

4

Repeat steps 2 and 3 for the remaining undesired programme position.

5



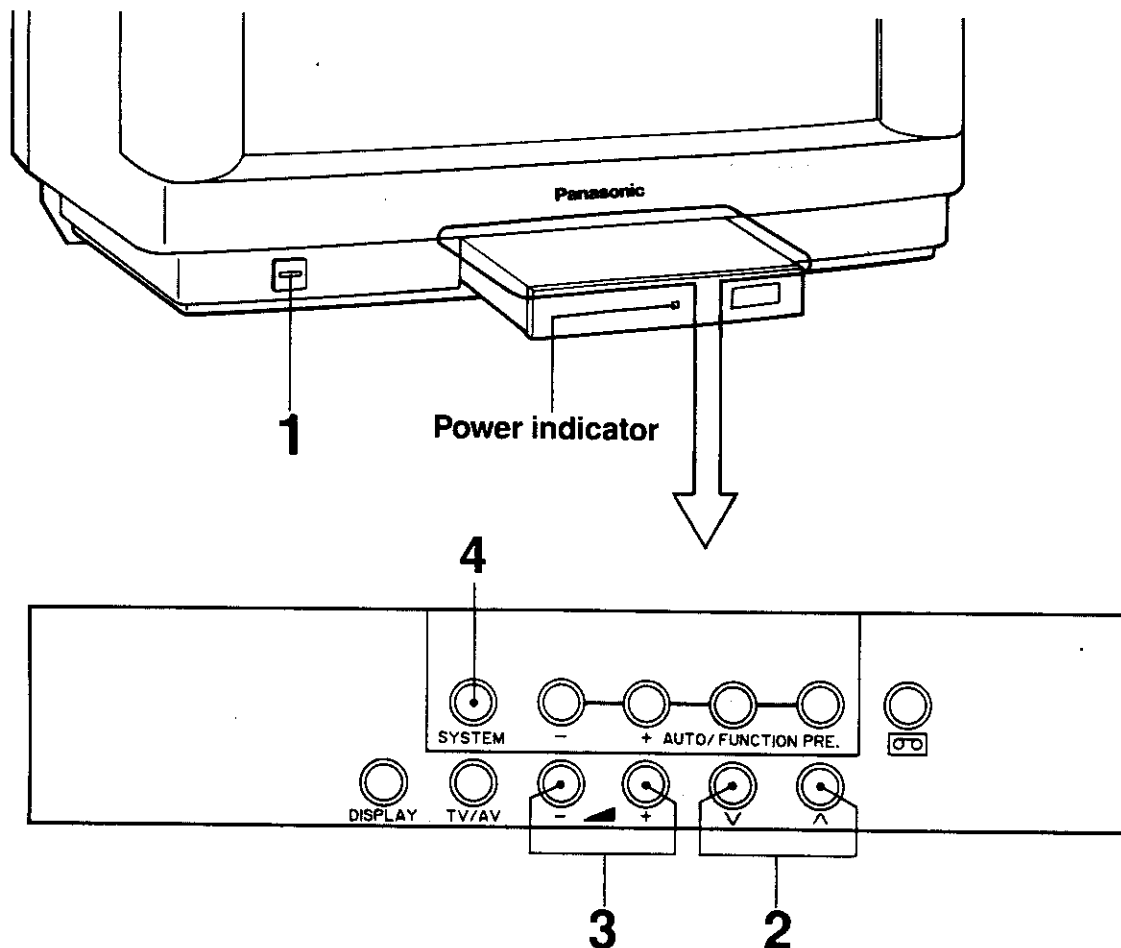
After the skip operation is completed, push the “PRE.” (PRESET) Button twice.

## How to cancel the skip function

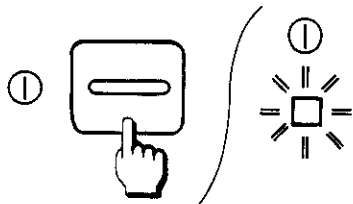
### Method:

- (1) Push the “PRE.” (PRESET) Button twice.  
Refer to Step 1 on page 38.
- (2) Select the skipped programme number by using programme number “Up” or “Down” Buttons.  
Refer to Step 2 on this page.
- (3) Push the “-” Button.  
The on-screen indicator will be changed from “SKIP” to “- - - -”.  
Then skip function will be canceled.
- (4) Repeat steps (2) and (3).
- (5) Push the “PRE.” (PRESET) Button twice.

# Basic Operation on the TV Set



1

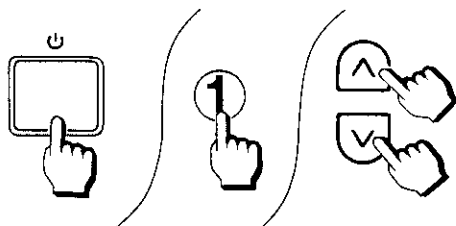


## Power on/off operation

Push the "Power Switch" to turn the TV set on.  
Power indicator will light up.

If the on-screen display does not appear, the TV set is in stand-by condition. Then push the Programme Number "Up" or "Down" Button on the TV set.

Push the "Power Switch" again to turn the TV set off.

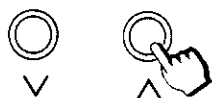


## Note:

In the stand-by condition, it is able to turn the TV set on by pushing the "Power (Stand-by)" Button, "Direct Programme Number Selection" Buttons (0—9) and Programme Number Up and Down Buttons on the remote control.

# Basic Operation on the TV Set

2



## Programme Number Up/Down Operation

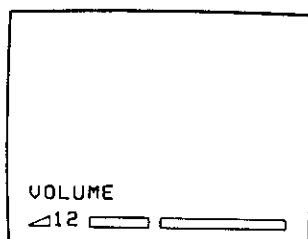
Push the Programme Number Up “^” Button to select the higher programmes.  
Push the Programme Number Down “v” Button to select the lower programmes.

3



## Volume Up/Down Operation

The sound level can be adjusted in steps.  
Push the Volume Up “+” Button to increase the sound level.  
Push the Volume Down “-” Button to decrease the sound level.



On-screen display will appear as shown.

4



SYSTEM

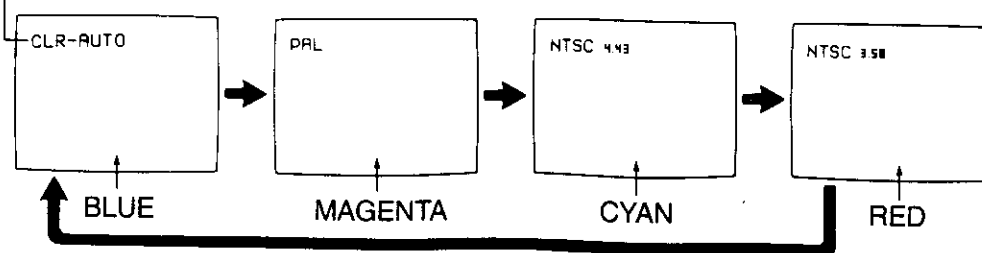
## System Select Operation

This Button is used only on AV mode.

Normally, the Colour System is automatically set to the CLR-AUTO Mode. If the clear picture cannot be obtained even when the AV signal is received, push the “System” Button repeatedly until the optimum image can be produced.

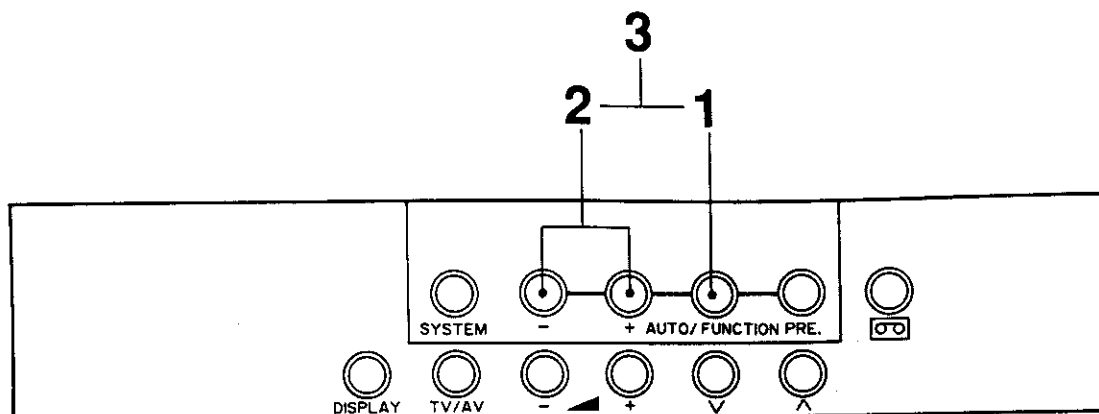
The colour on TV screen will be changed as shown below.

Colour System



# General Operation on the TV Set

## Picture and Sound Control



Picture and Sound have been set according to the factory-preset levels.  
You can change these settings according to your desired level.  
However you can change only the last function menu before standby function is enabled.  
When you want to set the other menu, use the "Picture Menu" Button or "Sound Menu" Button on the remote control.

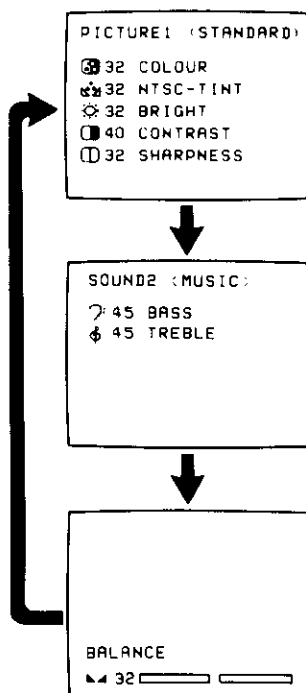
1



By pushing the "Auto/Function" Button, the on-screen display will appear.

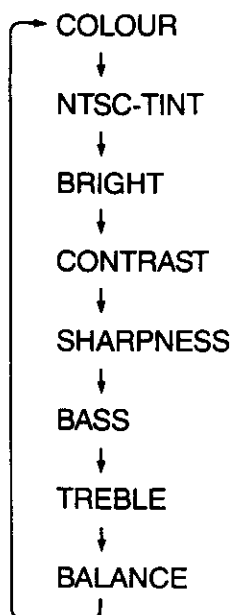


# General Operation on the TV Set



By pushing the "Auto/Function" Button repeatedly, the on-screen display will be changed as shown.

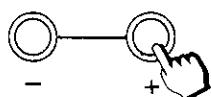
Select the desired function.



## Note:

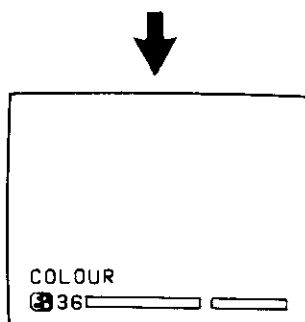
"NTSC-TINT" indicator will appear on the screen only if "NTSC4.43" or "NTSC3.58" is selected.

## 2



(e.g. Selecting the "COLOUR" function)

By using the Level Adjustment Up "+" or Down "-" Button, the on-screen display of the level indicator will appear as shown.

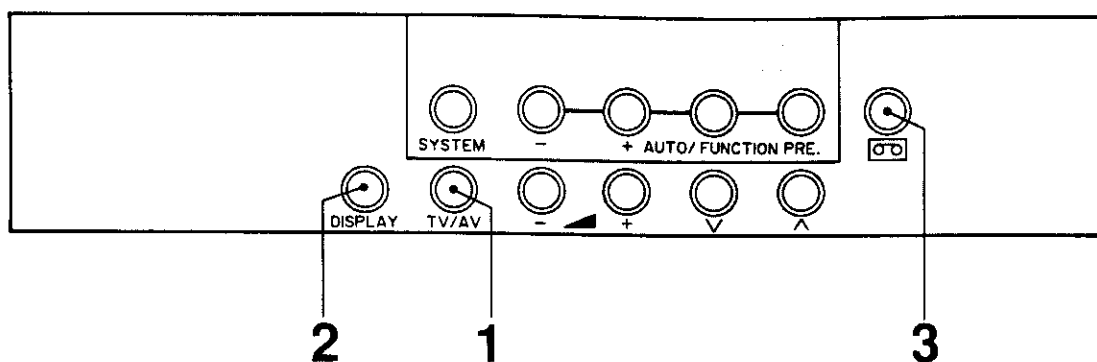


Push the "+" Button to increase the level of selected function.  
Push the "-" Button to decrease the level of selected function.

## 3

Repeat steps 1 and 2 for the remaining functions.

# General Operation on the TV Set



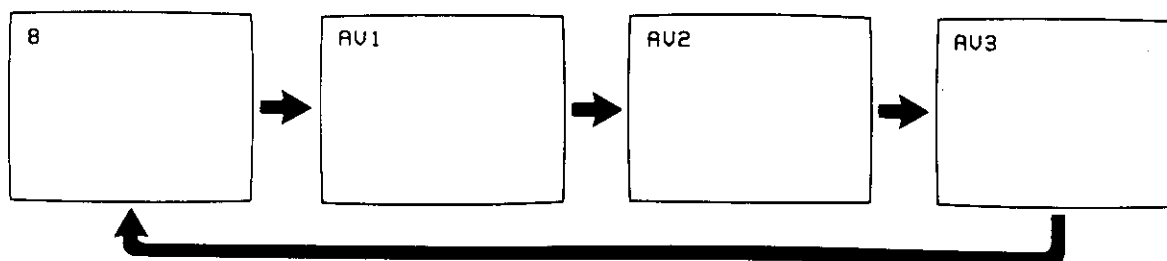
1



## AV modes (AV1, AV2 and AV3) Select Operation

Push the "TV/AV Selection" Button to select the TV and three AV modes (AV1, AV2 and AV3).

By pushing this Button, the on-screen display will be changed as shown below.



### Note:

- (1) When AV mode (AV1, AV2 and AV3) is selected and the selected AV mode has no AV signal, the colour on TV screen will appear according to the receiving Colour System.  
(Refer to page 41 for details of Colour System)
- (2) When TV mode is selected, the last Programme Number will appear on the screen.

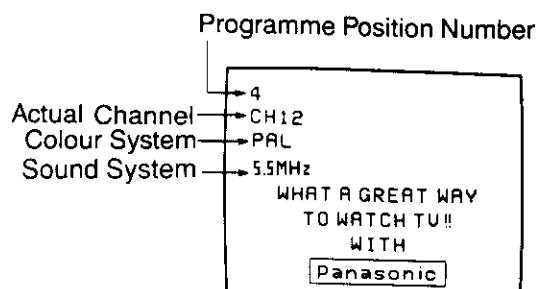
# General Operation on the TV Set

2



## Display Button

Push the "Display" Button, the on-screen display will appear as shown below.



### Note:

When this button is pushed, the Picture and Sound menu will be changed to Picture 2 (DYNAMIC) and Sound 2 (MUSIC). And each level will be changed to Normal mode. For Picture and Sound menu details, refer to Picture and Sound Operation on page 50 through 53.

Push again the "Display" Button, the on-screen display will disappear.

3



## Game Position Button

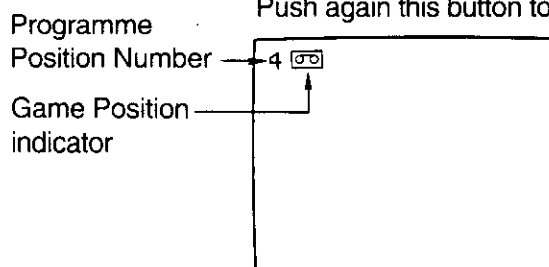
By pushing the "Game Position" Button, reproduction of irregular signals such as certain TV games and rental video tapes will be improved.

This function is effective when the RF IN Terminal is connected.

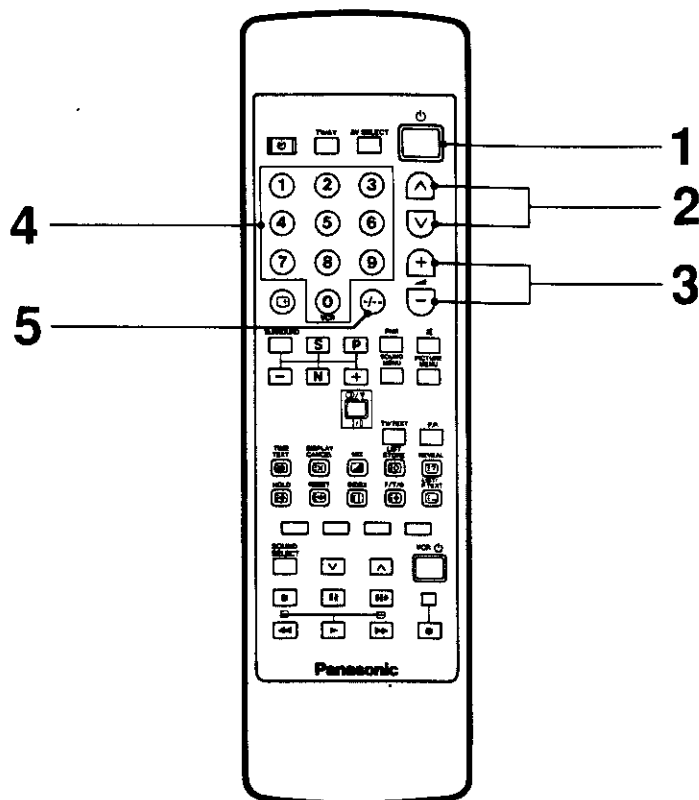
The "Game Position" indicator will appear as shown below.

The on-screen display will disappear automatically.

Push again this button to cancel.



# Basic Operation on the Remote Control



The Remote Control can only be used when the "Power" Button is in the on condition.  
(The Power indicator on the TV set lights up)

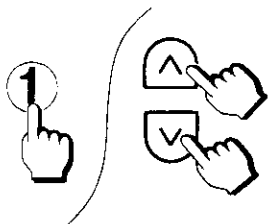
1



## Power (Stand-By) Button

Push this button to turn the TV set on.

Push it again to turn the TV set off.



It is able to turn the TV set on by pushing the "Direct Programme Number Selection" buttons (0—9) and the "Programme Number Up or Down" Button.

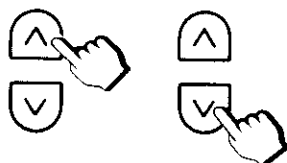
## Note:

Do not leave the TV set in the stand-by condition for a long period of time.

It is better to switch it off when you are away for extended period of time.

## Basic Operation on the Remote Control

2

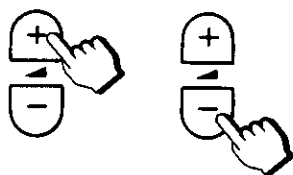


### Programme Number Up/Down Buttons

Push the Programme Number Up “^” Button to select the higher programme numbers.

Push the Programme Number Down “v” Button to select the lower programme numbers.

3



### Volume Up/Down Buttons

Push the Volume Up “+” Button to increase the sound level.

Push the Volume Down “-” Button to decrease the sound level.

4



### Direct Programme Number Selection Buttons

One digit programme number

(Programme numbers 0-9)

You can select the numbers 0 to 9 directly.

e.g. Selecting programme number “7”,  
push the “7” Button.

5



### Two digit programme number

(Programme numbers 10-29)

e.g. Selecting programme number “24”.

Push the “-/-” Button.

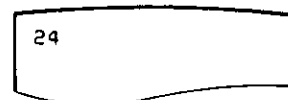
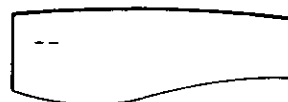
The on-screen will appear as shown.



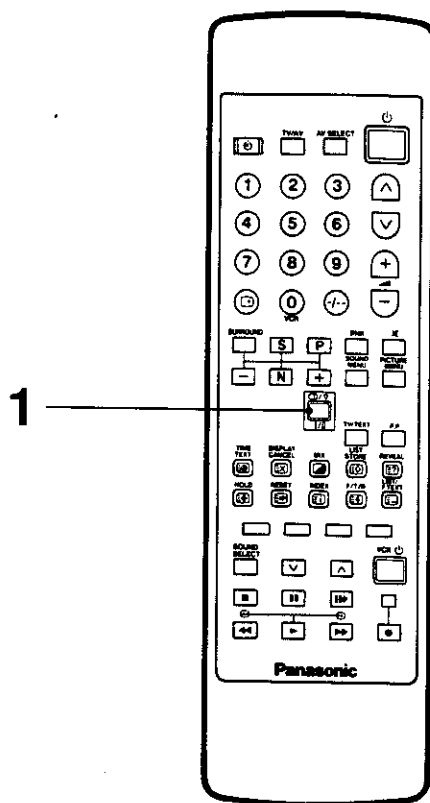
Push the “2” Button.



Push the “4” Button.



# NICAM Stereo Reception



When a stereo, dual-soundtrack or monaural NICAM programme is being received, the on-screen indicates to inform you of the type of broadcasts.

1



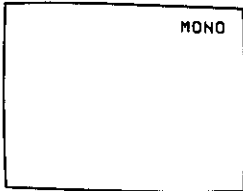
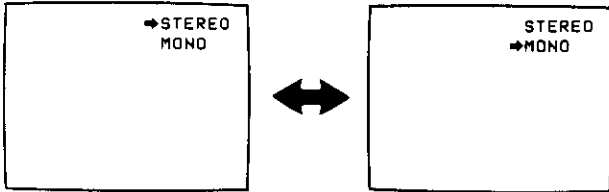
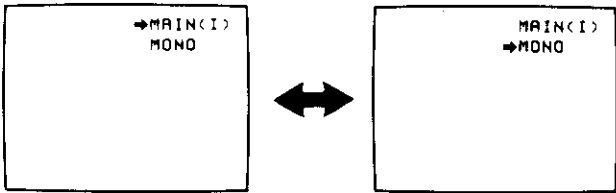
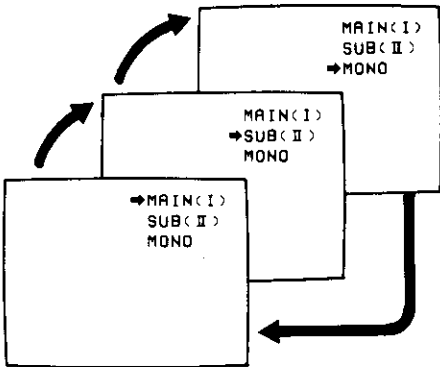
## NICAM Sound Selection Button

Sound output can be selected by pushing "NICAM Sound Selection" Button.

### Note:

If the stereo signal is weak or the receiving condition extremely poor, it is recommended to switch to the "Mono" Mode.

# NICAM Stereo Reception

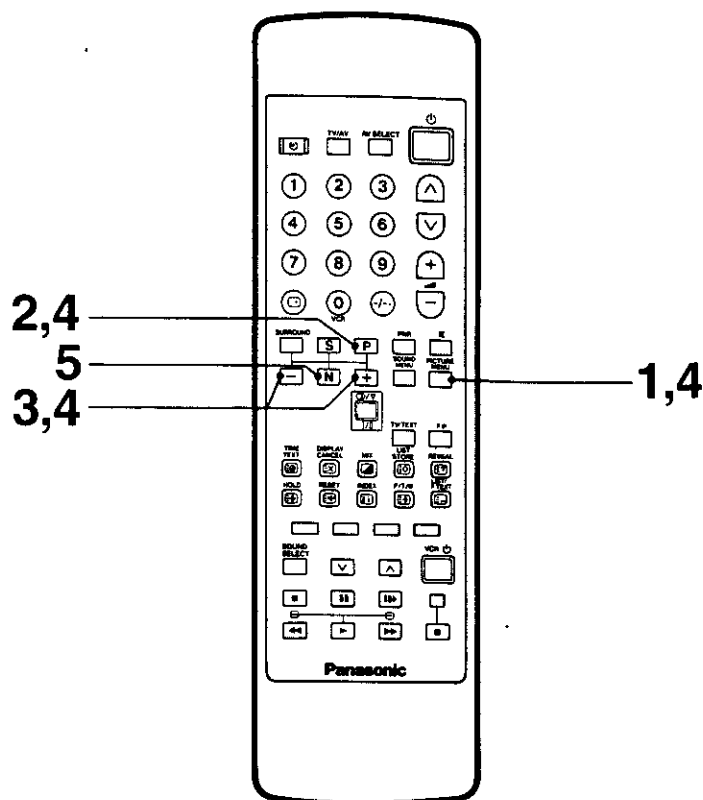
| Type of broadcast                                      | On-screen indicator  | Remark   |
|--|--|--|
| Regular broadcast<br>(Standard Audio)                  |     | Normal use   |
| NICAM STEREO<br>+<br>Regular                           |    | You can select either of the "STEREO/MONO".                |
| NICAM MONO I<br>(MAIN (I))<br>+<br>Regular             |  | You can select either of the "MAIN (I)/MONO".              |
| NICAM DUAL MONO<br>(MAIN (I)/SUB (II))<br>+<br>Regular |   | You can select either of the "MAIN (I), SUB (II) or MONO". |

## Note:

- (1) When the power is set ON, the mode is pre-set at "MAIN(I)/STEREO".
- (2) Even when the contents of the receiving signal undergo changes, selection mode is kept intact.
- (3) When the receiving conditions deteriorate, listening will be easier if the STANDARD AUDIO Mode is set at "MONO" position.

# Picture Menu Operation

## Menu Select Operation



Three menu can be selected to match the TV with the watching environments and/or the visual softwares.

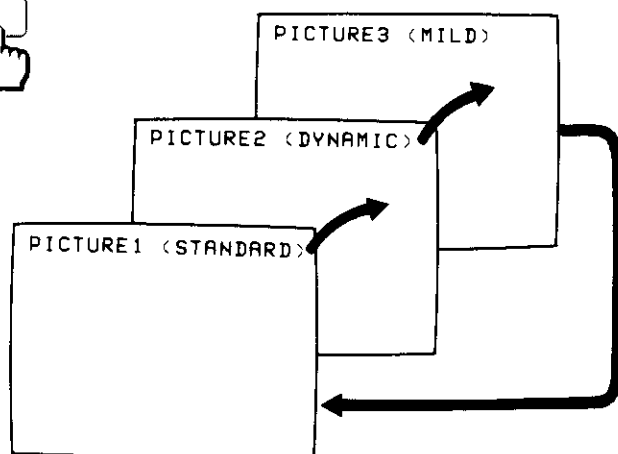
"COLOUR", "NTSC-TINT", "CONTRAST", "BRIGHTNESS" and "SHARPNESS" are memorized into each menu; letting you tailor the visual effect of your favorite picture.

(The level is preset at the factory.)

PICTURE  
MENU



By pushing this button, you can sequentially select three picture menu (STANDARD, DYNAMIC and MILD), as shown below.



### PICTURE 3 (MILD)

For watching at moderately dark places, it is set at pictures where consideration is given to dark scenes.

### PICTURE 2 (DYNAMIC)

For watching at bright places, it is set at modulated picture where contrast effect is strongly felt.

### PICTURE 1 (STANDARD)

For watching at standard brightness, it is set at standard picture.

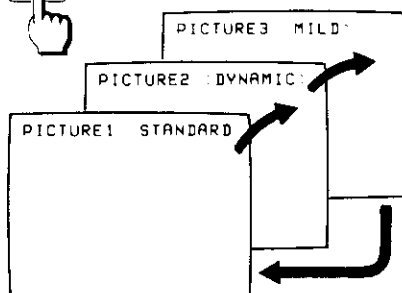


# Picture Menu Operation

## To Adjust the Picture Menu

1

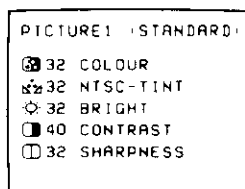
PICTURE  
MENU



By pushing this button, you can sequentially select three picture menu as shown below.

For each picture menu, the function levels can be adjusted as shown in following steps.

2



Select your desired function by pushing the "P" Button repeatedly. The on-screen display will appear as shown below.

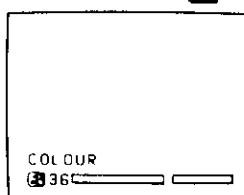
COLOUR → NTSC-TINT → BRIGHT → CONTRAST  
SHARPNESS

### Note:

NTSC-TINT indicator will appear on the screen only if the "NTSC4.43" or "NTSC3.58" is selected.

(e.g. Selecting the "PICTURE 1" menu)

3



(e.g. Selecting the "COLOUR" function)

By pushing the "+" Button or "-" Button, the on-screen display of the level indicator will appear as shown.

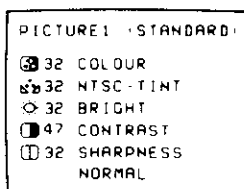
Push the "+" Button to increase the level of selected function.  
Push the "-" Button to decrease the level of selected function.

4

Repeat steps 1 through 3 for the remaining picture menu.

## Helpful Hint

5

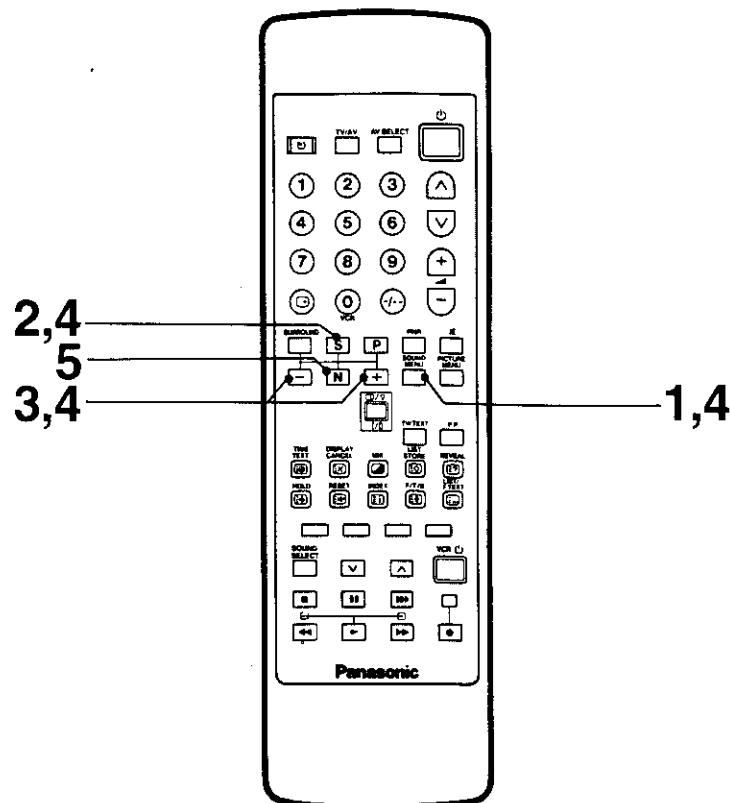


By pushing this button, the selected menu will be changed to the Normal mode.

The on-screen will appear as shown.

# Sound Menu Operation

## Menu Select Operation

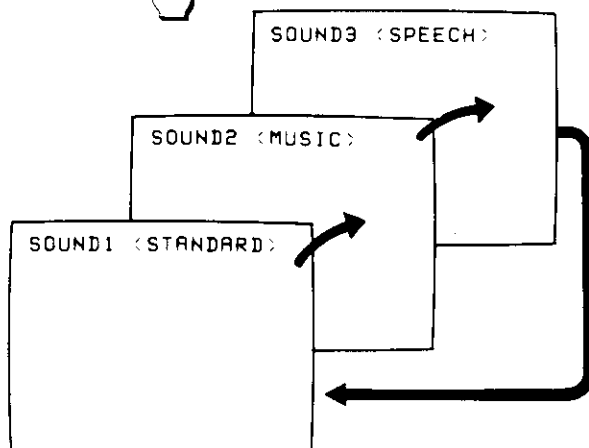


Three menu can be selected for perfect matching of the programmes and/or visual softwares. "BASS", "TREBLE" and "BALANCE" are memorized into each menu; letting you select your favorite mood by inputting the desired mode. (The level is preset at the factory.)

SOUND  
MENU



By pushing this button, you can sequentially select three sound menu (STANDARD, MUSIC and SPEECH), as shown below.



SOUND 3 (SPEECH)  
For News programme.

SOUND 2 (MUSIC)  
For MUSIC programme.

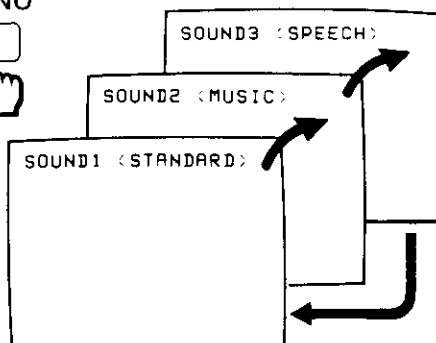
SOUND 1 (STANDARD)  
For Normal use.

# Sound Menu Operation

## To Adjust the Sound Menu

1

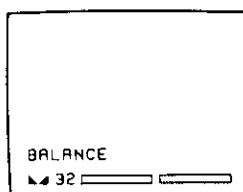
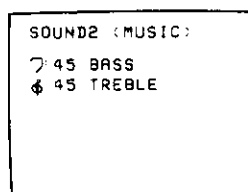
SOUND  
MENU



By pushing this button, you can sequentially select three sound menu as shown below.

For each sound menu, the function levels can be adjusted as shown in following steps.

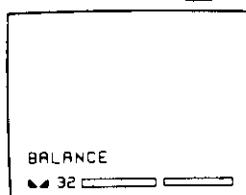
2



Select your desired function by pushing the "S" Button repeatedly. The on-screen display will appear as shown below.

BASS → TREBLE → BALANCE

3



(e.g. Selecting the "BALANCE" function)

By pushing the "+" or "-" Button, the on-screen display of the level indicator will appear as shown.

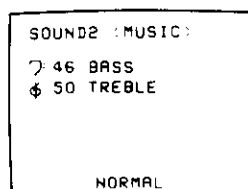
Push the "+" Button to increase the level of selected function.  
Push the "-" Button to decrease the level of selected function.

4

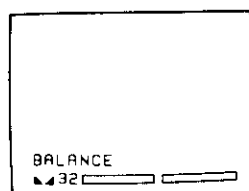
Repeat steps 1 through 3 for the remaining sound menu.

## Helpful Hint

5



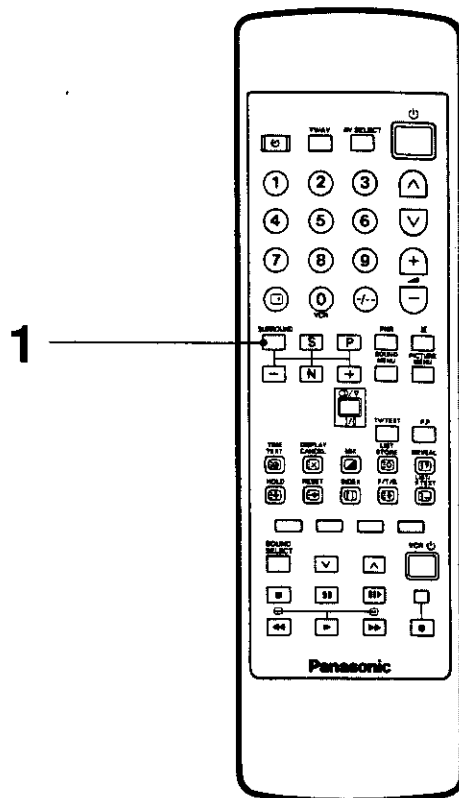
OR



on-screen for BALANCE  
level: 32 (center position)  
level bar: Red

By pushing this button, the selected menu will be changed to the Normal mode.  
The on-screen will appear as shown.

# Surround Operation



1

SURROUND



## AV Surround Sound

The benefits of surround sound are enormous. With additional speakers you can be completely enveloped in sound—just as if you were at a concert hall or cinema. We also provided a surround level control—so you can adjust the effect to suit your taste.

The on-screen will be changed as shown right.

### Note:

When the "Movie" or "Mono" surround is selected, the Extra Bass System will set on automatically. When the Extra Bass System is activated, the dynamic low frequency ranges are boosted.

### "Extra Bass System"

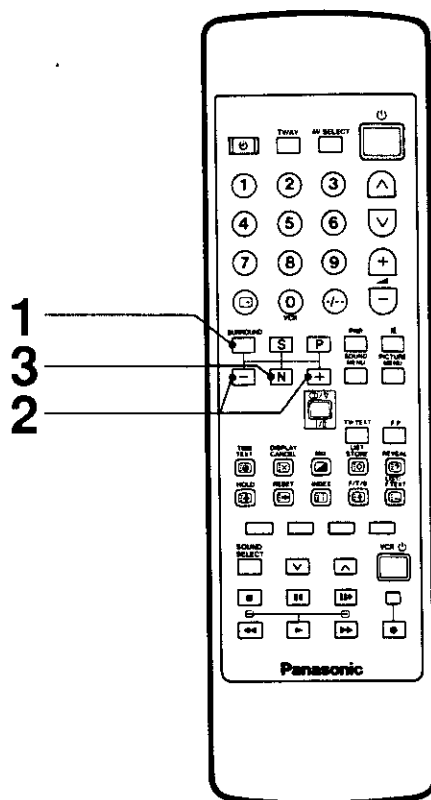
The Extra Bass System effect may be different according to the Programme content of the music source.

# Surround Operation

|         | Type of broadcast  | On-screen | Remark   |
|---------|--|-----------|--|
| TV Mode | <ul style="list-style-type: none"> <li>• Regular</li> <li>• NICAM MONO</li> <li>• NICAM DUAL MONO</li> </ul> |           | You can select either of the surround "MONO/OFF".  |
|         | <ul style="list-style-type: none"> <li>• NICAM STEREO</li> </ul>   |           | You can select either of the surround "MOVIE/MUSIC/OFF".<br>Note:<br>Mono surround can not select. |
| AV Mode | <ul style="list-style-type: none"> <li>• Select the AV Modes. (AV1, AV2 and AV3)</li> </ul>                  |           | You can select either of the surround "MOVIE/ MUSIC/ MONO/OFF".                                    |

# Surround Operation

## To Adjust the Surround Level



### 1 SURROUND



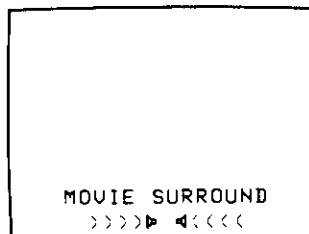
By pushing this button, you can sequentially select the Surround menu. For surround details, refer to page 54 and 55.

### 2

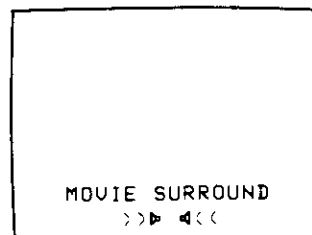


(e.g. Selecting the "MOVIE SURROUND" menu.)

By pushing the "+" Button or "-" Button, you can select the desired surround level.




Push the "+" Button to increase the level of selected menu.



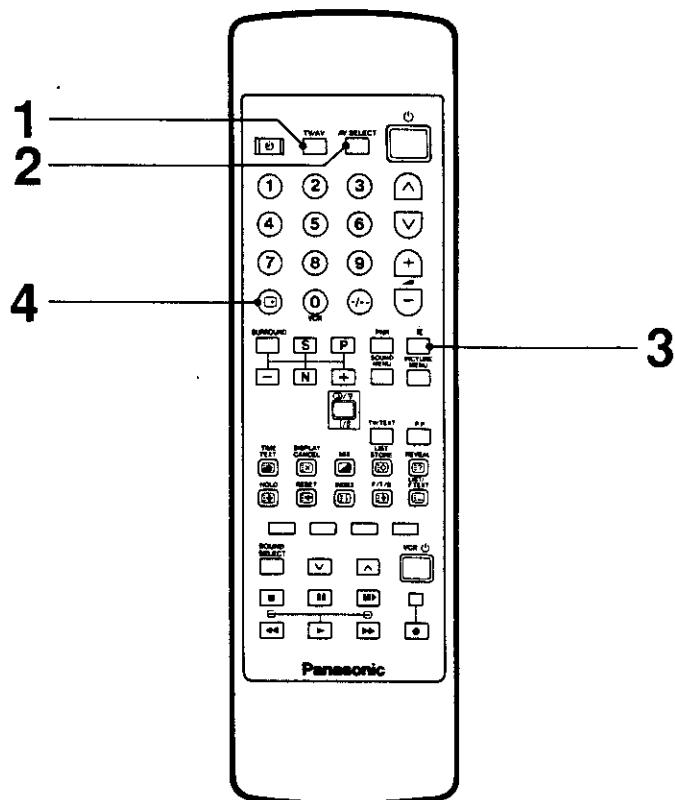
Push the "-" Button to decrease the level of selected menu.

## Surround Operation

### Helpful Hint

- 3**
- 
- By pushing this button, the selected menu will be changed to the Normal Surround level.

# General Operation on the Remote Control



1

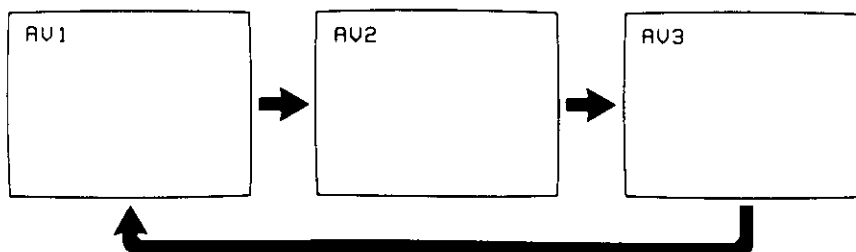


Push the "TV/AV Selection" Button on the Remote Control.  
Then last selected AV mode will be displayed on the screen.

2



By pushing this button, you can sequentially select three AV modes as shown below



## Note:

- (1) When AV mode (AV1, AV2 and AV3) is selected and the selected AV mode has no AV signal, the colour of TV screen will appear according to the receiving Colour System.  
(Refer to page 41 for details of Colour System)
- (2) When TV mode is selected, the last Programme Number will appear on the screen.



# General Operation on the Remote Control

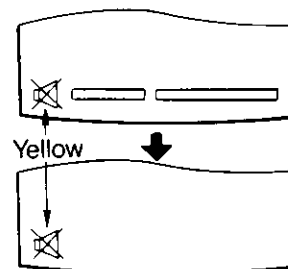
3

Push the "Mute" Button to mute the sound.



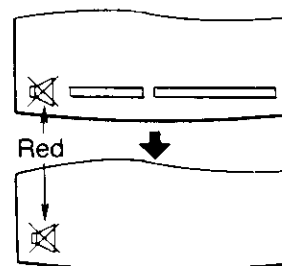
Push this button once to mute the sound 50%.  
The on-screen display will appear as follows.  
The previous sound level will appear in yellow.

The "Mute" symbol will remain unchanged.

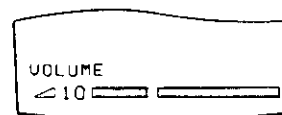


Push this button again to mute the sound perfectly.  
The previous sound level will appear in red.

The "Mute" symbol will remain unchanged.



Push this button once again to restore the previous sound level.

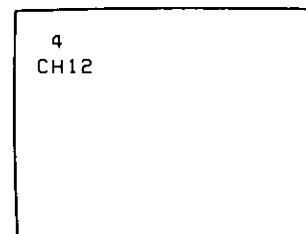
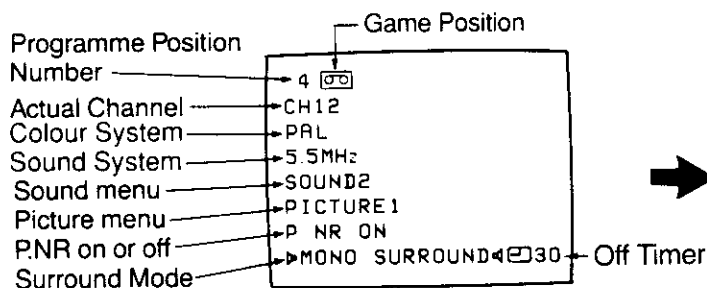


## Note:

In the "Mute" condition, you can use the Volume "Down" Button.  
Using the Volume "Up" Button, the "Mute" will be canceled.

4

Push the "Recall" Button to activate the on-screen display as shown below.



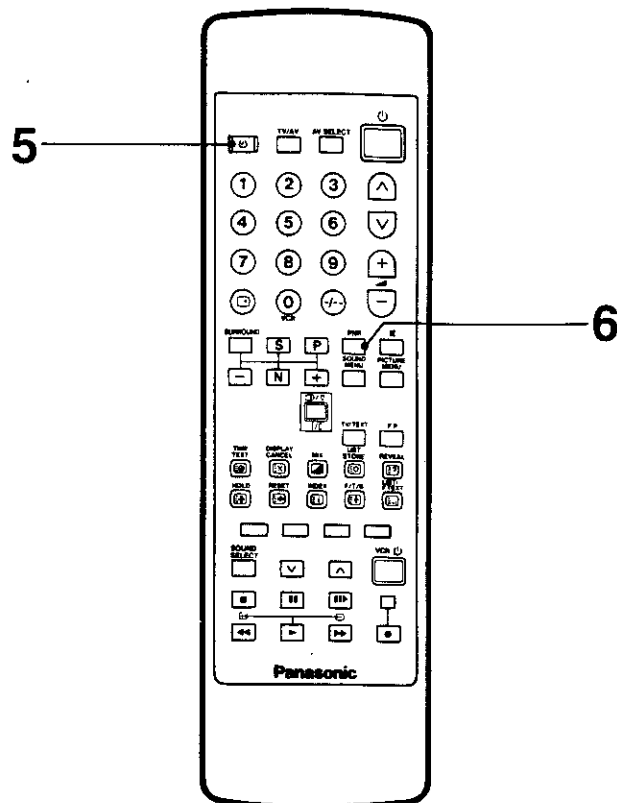
The Programme Number and Actual Channel will remain.



Push again to cancel.

To be continued. →

# General Operation on the Remote Control



5



## Off Timer Button

The TV set may be pre-set to switch off after a fixed period. Pushing the "Off timer" Button will set the TV for 30 minutes. To set 60 minutes, push this button again, and again for 90 minutes. Pushing this button once more will return the Pre-set time to zero.

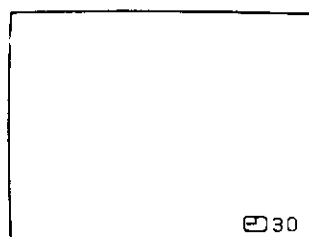
30 → 60 → 90 → 0

When a time for switch off has been set, the pre-set time will be displayed as follows. (e.g. setting for 30 min)

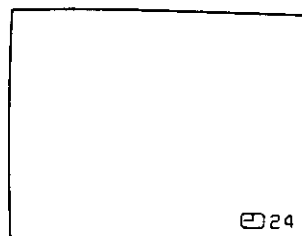
The on-screen display will disappear automatically.

To confirm the remaining time, push the "Recall" Button and the remaining time is displayed on-screen.

Three minutes before the time for switch off, the display of remaining time will begin to flash.



After  
6 min.



## General Operation on the Remote Control

### Note:

Pre-set time may be canceled in the following ways.

- (1) Set the Pre-set Time condition to "0" using the "Off timer" Button.
- (2) Turning the TV set off, using the "Power" Button on the Remote Control or the "Power" Switch on the TV set.

6

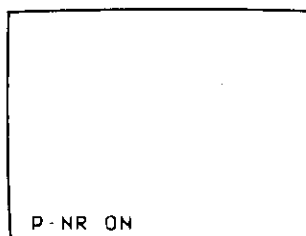
PNR



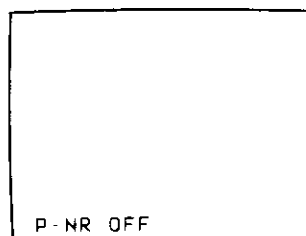
### Picture Noise Reduction Button

The Picture Noise Reduction system is a system designed to effectively reduce the Picture Noise.

The on-screen display will appear as follows.



When the Picture Noise Reduction System is ON, the Picture Noise will be soft.



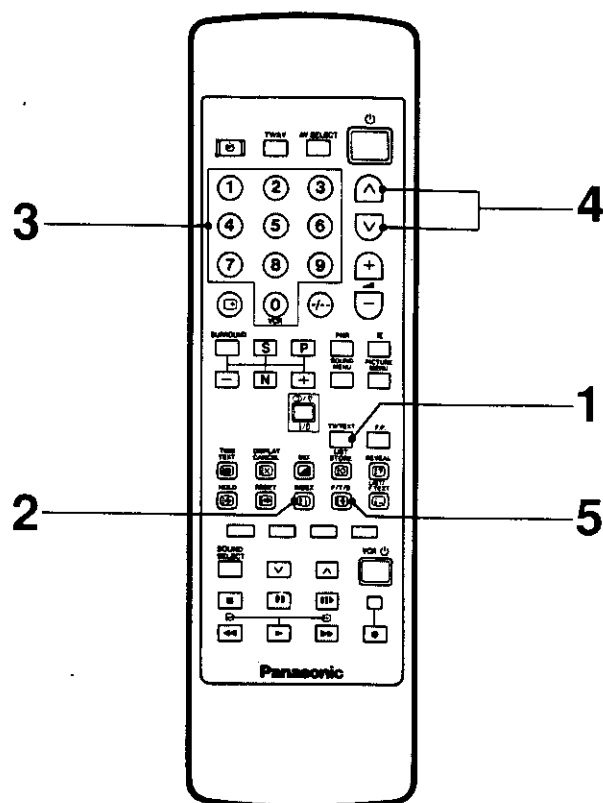
When the Picture Noise Reduction System is OFF, the Picture Noise will be sharp.

On the channel of weak broadcasting signal or no signal, the colour on TV screen will appear according to the receiving Colour System. And the noise will be muted automatically.

### Note:

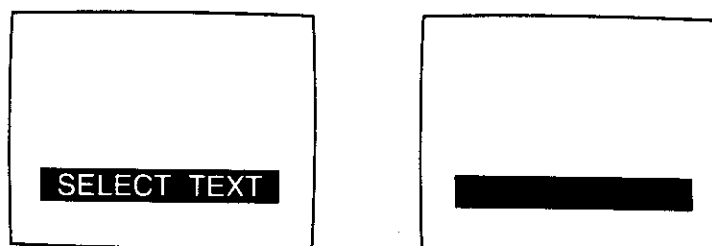
When you want to watch the weak broadcasting in spite of the disturbance, turn the Picture Noise Reduction to ON condition. Then the TV set will be able to receive the weak broadcasting.

# Basic Operation of Teletext



A black bar briefly appears to indicate Teletext availability, when a channel with Teletext is selected. If the station broadcasting Teletext has its own title transmitted in the Teletext signal for inclusion in this position, then this title will appear inside the black bar.

For example:



1



## TV/TEXT Selection Button

Push this button to select the "TEXT" mode.



To back to the TV mode, push the "TV/TEXT Selection" Button again.

## Note:

The first time that TELETEXT is selected after the TV is switched ON, the first page displayed is that stored in the red position in LIST mode.

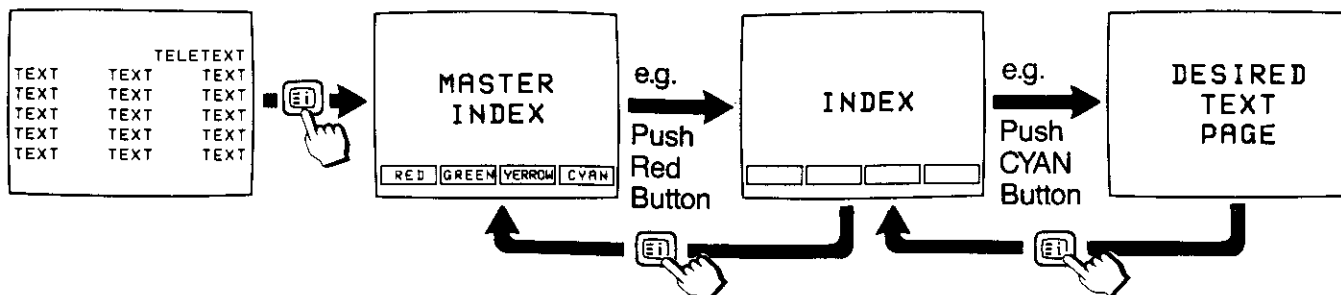
# Basic Operation of Teletext

2

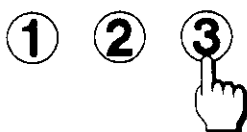


## INDEX Button

Push this button, in "FTEXT" Mode, to return to index page. Depending on the way information is transmitted by each TV channel, this "INDEX" Button may need to be pushed more than once to return to the main index page.



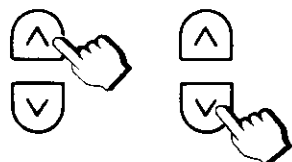
3



## Numerical Buttons

To select the required page of TELETEXT, use these buttons "0" to "9".

4



## Page Number Up/Down Buttons

Push Page Number Up "^" Button to step up to the higher TELETEXT page.

Push Page Number Down "v" Button to step down to the lower TELETEXT page.

### Note:

Page numbers always have three digits, the first being between 1 and 8 inclusive.

5



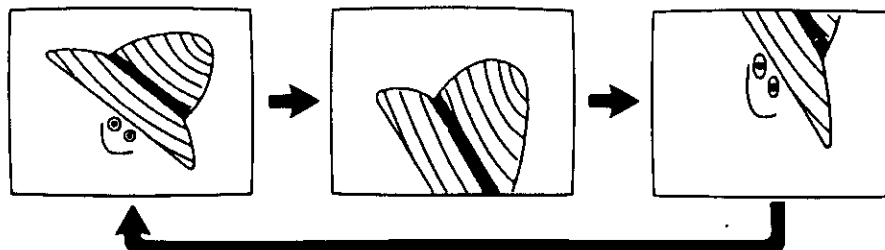
## Full/Top/Bottom Button

This function is used when characters on the TV screen are hard to read.

Pushing 1st time expands the upper half of the screen only.

Pushing 2nd time expands the lower half of the screen only.

Pushing 3rd time returns the display to its original size (Full page).

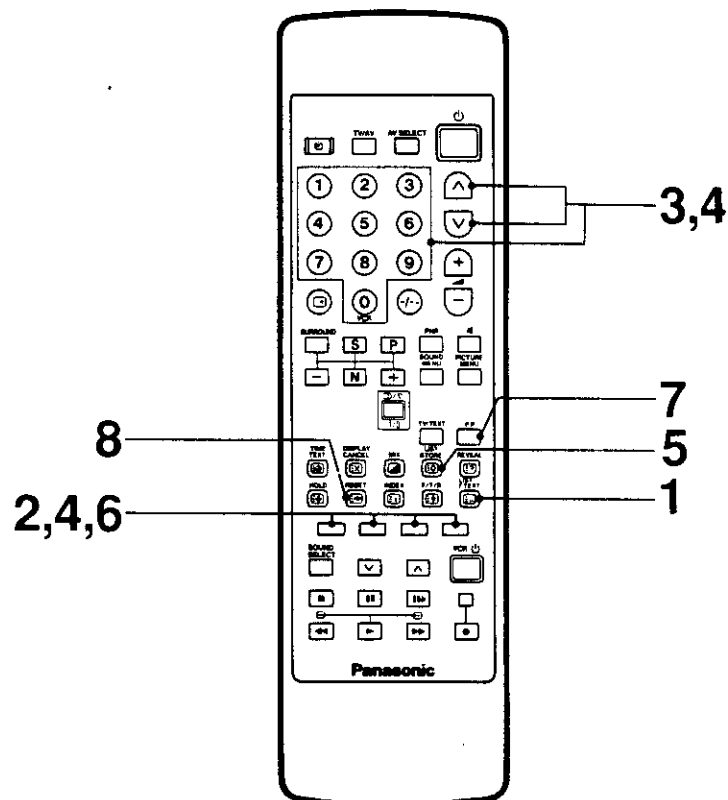


### Note:

When the next page is selected under the upper/lower display expanded conditions, the upper half of the next page is expanded for display.

# Teletext Operation

## List Mode Access



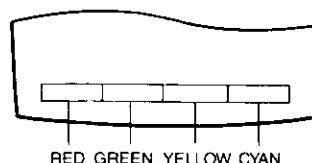
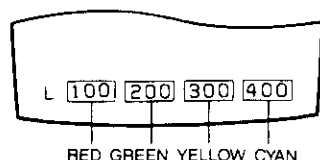
In this mode, 4 page numbers can be preset for each programme position 1 to 25. A maximum of 100 pages can be programmed.  
Any one of these 4 pages can be displayed instantly by pushing the corresponding "colour coded" Button on the Remote Control.

**1**



**(Teletext must be selected.)**

Select the "LIST" Mode by using this button.  
By pushing this button, the TELETEXT is into "LIST" Mode from "F.TEXT" Mode and vice versa.  
The on-screen display will be changed as follows.



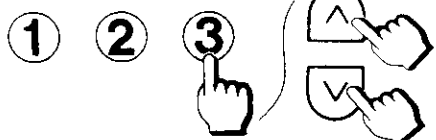
**2**



To select the memory position, push one of the "colour-coded" Buttons.

## Teletext Operation

3



Enter the page number of the desired text, by using buttons "0" to "9".  
You can use the "Programme Up or Down" Button to enter the page number.

4

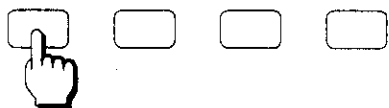
Repeat steps 2 and 3 for the remaining positions if required.  
Up to 4 page numbers can be preset for each programme position 1 to 25.

5



To store these page numbers into memories, push the "LIST STORE" Button and hold until the background of the 4 numbers change from Black to White.

6



Every time a "List" Mode is selected, these 4 page numbers will flash until all 4 pages have been found and stored into memories.  
Any one of these 4 pages can be displayed instantly by pushing the corresponding "colour coded" Button on the Remote Control.

### Note:

- (1) If a new page number is entered for viewing, it will not replace the previous number in the memory at that position unless the "LIST STORE" Button is pushed and held down for a few seconds.  
The 4 page number will be reset to the preset numbers when either the "Reset" Button is pushed or programme position is changed, or mode changed to F.TEXT then return to list mode again, or TV set is turned off.
- (2) The 4 preset page numbers can be changed when required, by following procedures 2 through 5 above.
- (3) Page numbers preset can only be performed on programme number 1 to 25.

## Helpful Hints

7



When this button is pushed, the TV set will be changed from TV mode to TEXT mode.  
This button allows user direct access to the page stored on "CYAN" key for that programme.

### Note:

- (1) List mode must be entered on each programme number position.
- (2) The page number must be stored on the "CYAN" position.

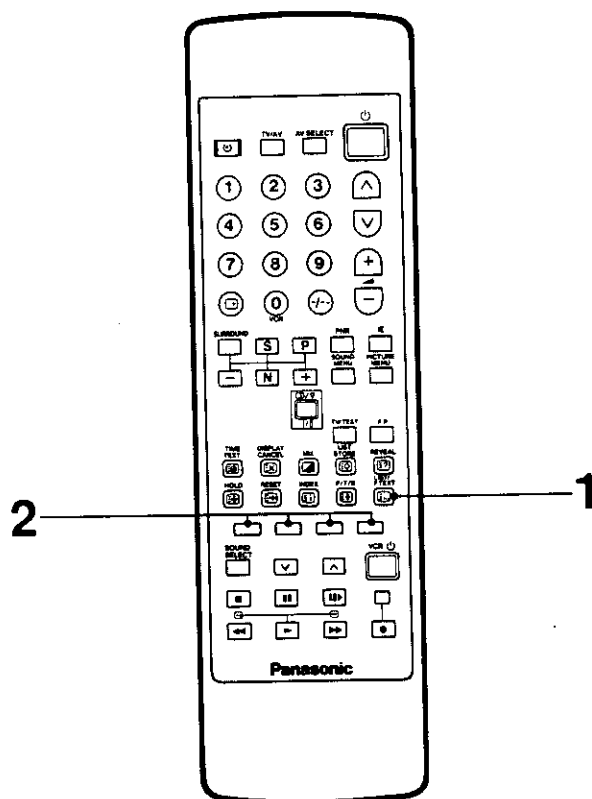
8



By pushing this button in the "F.TEXT" mode, the present page will be reset to page 100 and associated colour subject.  
By pushing this button in the "LIST" mode, the present page will be reset to the "RED" coloured page number.

# Teletext Operation

## Fast Text (F.TEXT) Mode Access



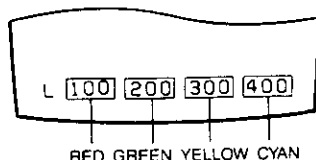
In "F.TEXT" mode, select the desired teletext information by pushing one of the "colour-coded" Buttons on the remote control which corresponds with the coloured subject's title on the screen.

1

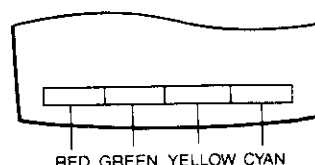


(Teletext must be selected.)

Push the "LIST/F.TEXT" Button to select the "F.TEXT".

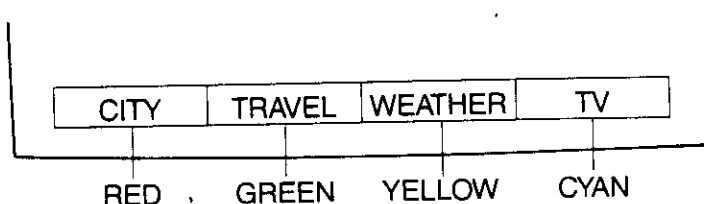


List mode



F.TEXT mode

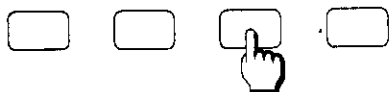
e.g. Now the on-screen display appears these subject's titles.





# Teletext Operation

**2**



e.g. Viewing the "Weather" page.  
Push "Yellow" Button on remote control.

**3**

Follow similar procedure to access other pages of teletext.

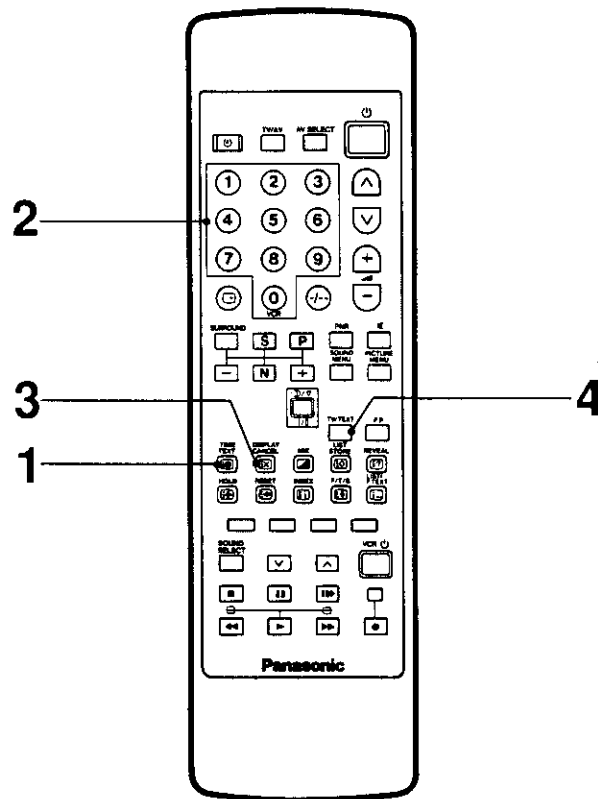
**Note:**

Subject's titles and their sequence for access are set-up by TV broadcast channels, they are not user's definable with the Remote Control.

It is a convenient way of accessing some Teletext pages without the need to enter page numbers.

# Teletext Operation

## Text Sub Page Access



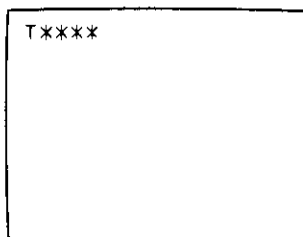
When Teletext information exceeds more than one page, it may take some time for the automatic changing of the sub-pages to reach the sub-page you require. It is possible to enter your required sub-page and continue watching the normal programme until the correct sub-page is found.

1



Required Teletext page must be selected.

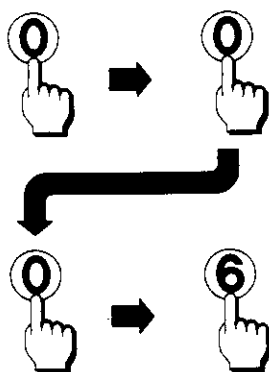
Push the "TIME TEXT" Button.



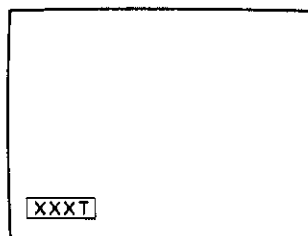
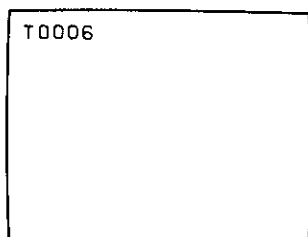
At that time, "T\*\*\*\*" will be displayed at the top left of the screen.

# Teletext Operation

2



Enter the desired sub-page number before the "T\*\*\*\*" disappear. If you select sub-page 6 then you must push, 0, 0, 0 and 6 buttons.



If in "LIST" mode the letter "T" will appear in the current coloured box at the bottom left of the screen indication that the sub-coded has been set.

3



Push the "DISPLAY CANCEL" Button to view a normal TV programme.

**TEXT message**



When the desired sub-page is found, the "TEXT" message appear the top left of the screen.

4



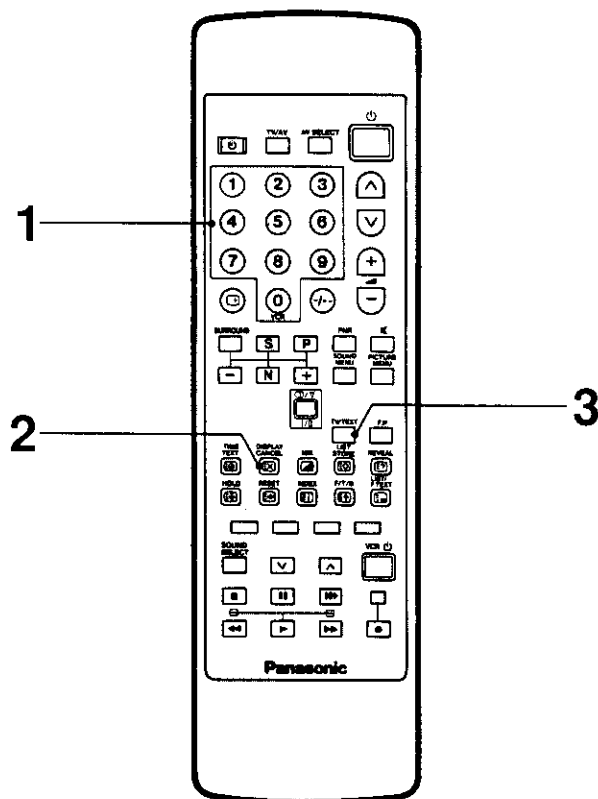
Push the "TV/TEXT Selection" Button to display the found sub-page. To clear the sub-coded page, enter a new page number or push the "RESET" Button.

**Note:**

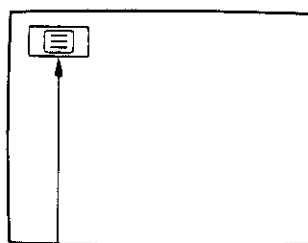
It is not possible to select another programme during sub-page operation.

## Teletext Operation

### Display Cancel Operation



(Teletext must be selected.)



Text message

While a selected page is being searched for, TV picture can be viewed by pushing this button.  
When that page is found, the "TEXT" message will be displayed at the top left corner of the screen.  
Then push the "TV/TEXT Selection" Button.

# Teletext Operation

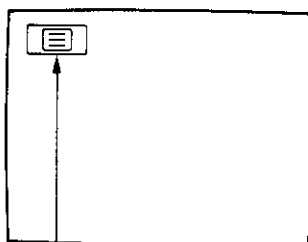
## Method (To watch a newsflash page)

1



In text mode, select a newsflash page.  
e.g. Page No. 155

2



TEXT message

Push the "Display Cancel" Button.

The TV screen is switched from the Text page to the normal TV programme.

Every time an update newsflash information is available, the newsflash information will be displayed at the bottom of the screen. When that page is found, a message will be displayed at the Top left corner of the screen.

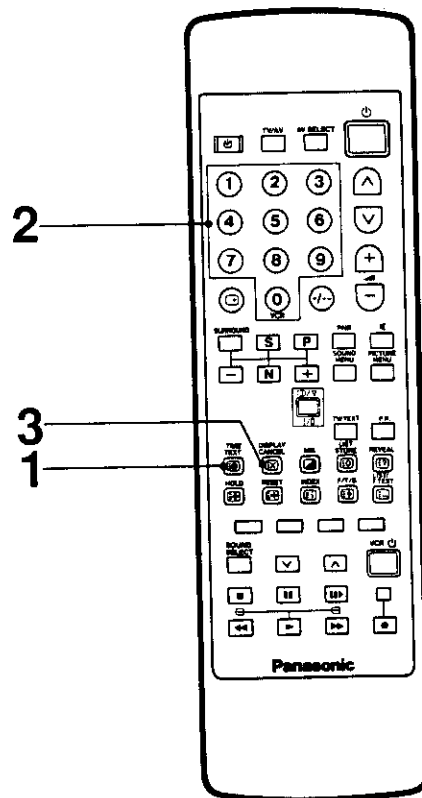
3



Push the "TV/TEXT Selection" Button twice.

## Teletext Operation

### Text ALARM Page Access



This function is used for selected pages only.  
e.g. The Teletext ALARM page.  
Refer to the subject index page for page location.

1



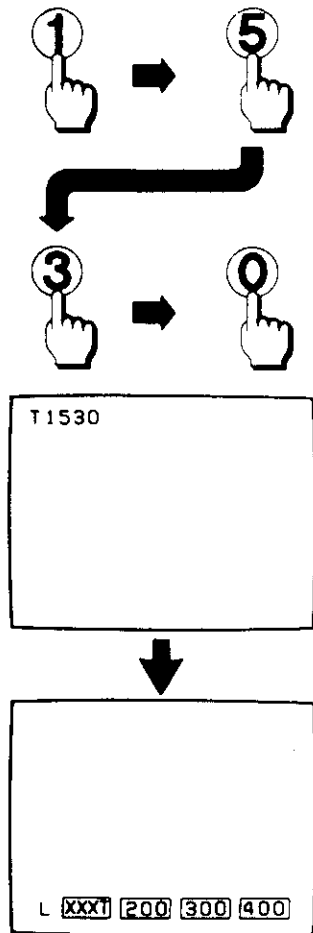
Text ALARM Page must be selected.  
Push the "TIME TEXT" Button.

T\*\*\*\*

At that time, "T\*\*\*\*" will be displayed at the top left of the screen;  
now enter the time at which this alarm page should be displayed  
using buttons 0 to 9 on the remote control.

# Teletext Operation

2



This feature uses a 24 hour clock.  
e.g. To set the alarm for 3:30 p.m.

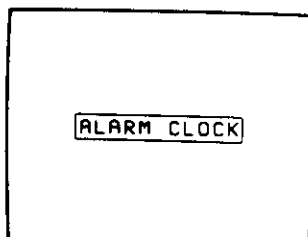
Push buttons 1, 5, 3, 0 consecutively, the "T\*\*\*\*" display will change to "T1530" momentarily then return to the current page number.

If in "LIST" mode the letter "T" will appear in the current coloured box at the bottom of the screen indicating that the alarm page has been set.

3



Push the "DISPLAY CANCEL" Button to view TV.



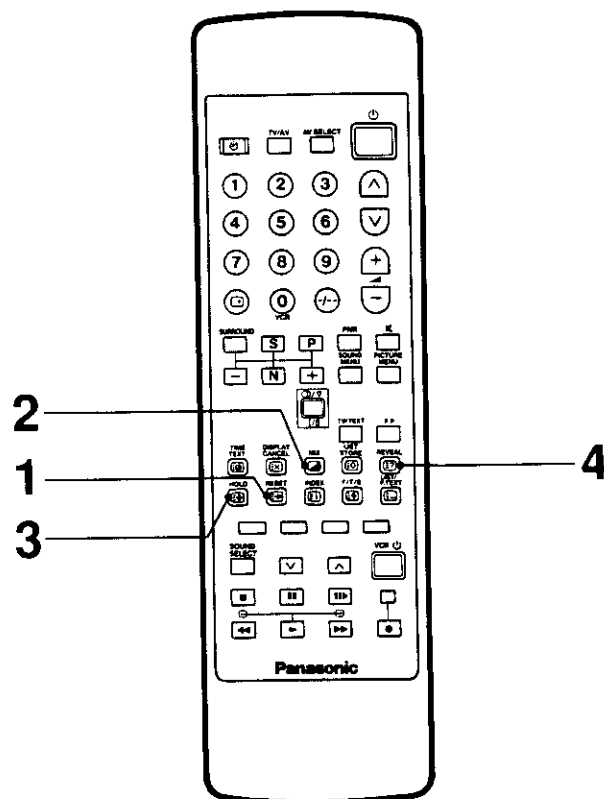
At 3:30 p.m. the alarm page will be displayed.

## To cancel this feature

Push the "TV/TEXT Selection" Button to return to normal viewing.  
If you wish to select other teletext pages, push the "RESET" Button.

# Teletext Operation

## Useful Functions for Teletext



These function can be used in both 2 Type (LIST mode and F.TEXT mode).

1



### Reset Button

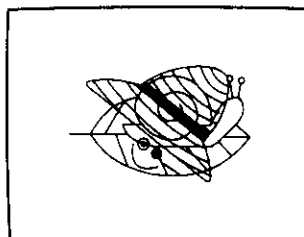
Pushing this button in the "F.TEXT" mode reset the present page to page 100 and associated colour subject.  
Pushing this button in the "LIST" mode reset the present page to the "RED" coloured page number.

2



### Mix Button

Push this button, the Teletext page will appear over the TV programme.



To back to the TV mode, push the "TV/TEXT Selection" Button.



# Teletext Operation

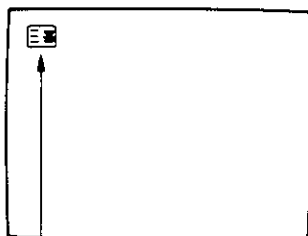
3



## Hold Button

The selected page may have been divided into subpages. These subpages are rotated automatically.

Push this button, the subpage will stay on the screen.



The "Hold" message will be displayed at the top left corner of the screen.

Hold message

To cancel the "Hold", push this button again.

4



## Reveal Button

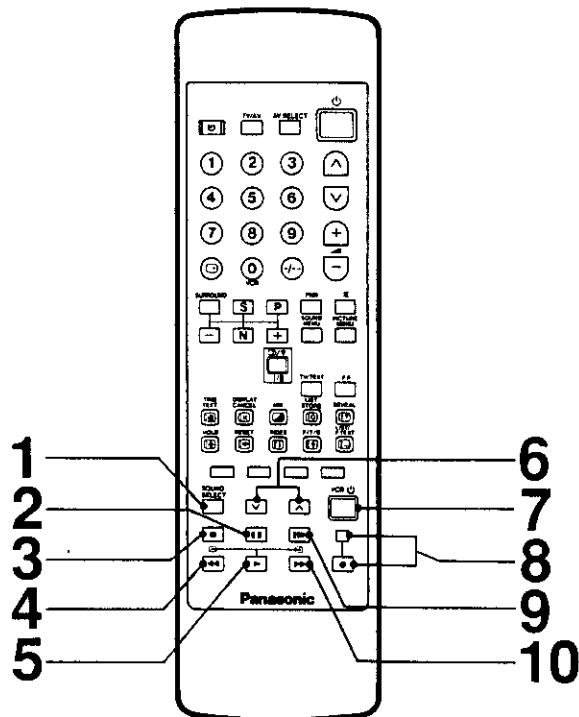
Some pages contain concealed information. e.g. the solution to a riddle or a puzzle.

Push the "Reveal" Button, the concealed information will appear.

Switching off the concealed information. Push this button again.

# Operation for VCR

This infrared remote control is designed specifically to be used with selected Panasonic/National VCRs. Some model VCR's have different functions, so please refer to the individual instruction booklet to ensure compatibility when using this remote control with Panasonic/National VCRs, consult your dealer for details.



- 1**
- SOUND SELECT**
- Sound select Button for VCR**  
You can select the Sound mode (Stereo or Bilingual), by pushing this button.  
For sound select operation details, refer to operating instructions of the VCR.

- 2**
- Pause/Still Button**  
Push to stop the tape temporarily during playback.  
A still-picture will be shown.

- 3**
- Stop Button**  
Push this button to stop the tape.

- 4**
- Rew (Rewind)/Review Button**  
Push this button to rewind the tape.  
During the playback mode, holding this button down will allow you to view the picture in reverse direction rapidly. (Review)

## Operation for VCR

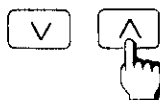
5



### Play Button

Push this button to playback the tape.

6



### Programme Number Up and Down Buttons for VCR

Push the Programme Number "Up" or "Down" Button to select a programme position which you want to tune to a TV station.

7



### VCR Power Button

Push this button to turn the VCR on.  
Push again to turn it off.

8



### Rec (Record) Buttons

Recording is started by pushing these 2 buttons at the same time.

9



### Still Advance Button

While in the still mode, push this button to advance the picture one frame at a time.

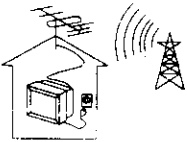
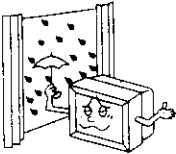
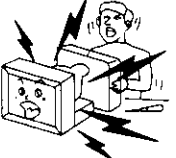
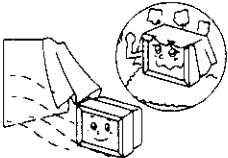
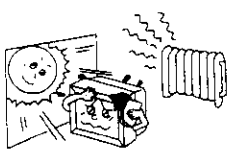
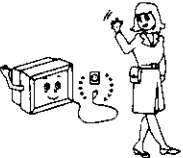
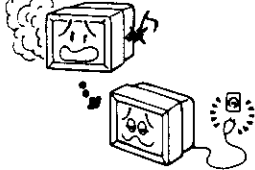
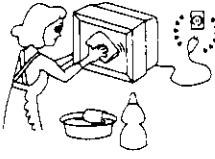
10



### FF (Fast Forward)/Cue Button


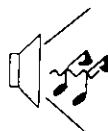

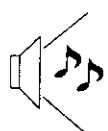
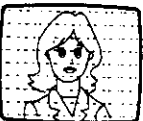
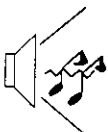

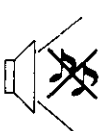

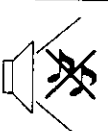

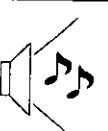
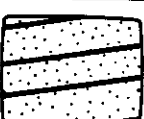







Push this button to fast forward the tape.  
During the playback mode, holding this button down will allow you to view the picture in the forward direction rapidly. (Cue)

# Warnings and Cautions

|   |   |
|---|---|
|    | <p><b>Power Source and TV System</b><br/> This TV set can be operated on AC 230 V, 50 Hz.<br/> It is designed exclusively for broadcast systems PAL B. G.</p>   |
|    | <p>To prevent damage which may result in fire or electrical shock hazard, do not expose the TV set to rain or excessive moisture.</p>   |
|    | <p><b>High Voltage:</b><br/> Do not remove the rear cover as live parts are accessible when rear cover is removed.</p>  |
|    | <p>Adequate ventilation is essential to prevent failure of electrical components.</p>   |
|   | <p>Avoid exposing the TV set to direct sunlight and other sources of heat.</p>  |
|  | <p>Remove the AC plug from the wall outlet (Power point) when the TV set is not used for a prolonged period of time.</p>  |
|  | <p>Do not use this set if abnormal operation occurs.<br/> Ex : Smoke, odd sounds, or smells. Turn the power switch off and disconnect the AC plug, if you notice any unusual operation.</p>   |
|  | <p><b>Cabinet and Picture Tube Care</b><br/> The cabinet and picture tube can be kept in good condition by simply wiping with a clean, dust-less cloth moistened with mild detergent and water. Do not use solutions containing benzol, petroleum or a chemical cloth. For safety, remove the AC plug from the wall outlet.</p> <p><b>Speaker grill Care</b><br/> Remove dust with vacuum cleaner after attaching a brush adaptor. Do not let the vacuum cleaner pipe come into direct contact with the speaker (without the adaptor).</p> <p><b>CAUTION:</b><br/> When the cabinet and the speaker grill are scratched (with a nail or hard object) or struck by similar materials, it may become deformed. Also, the speaker grill may be easily pierced by a sharp object.</p> |

# Troubleshooting

Before you call for service, determine the symptoms and make a few simple checks as shown below.

| Symptoms  |   | Checks   |
|---|---|--|
| Picture   | Sound   |  |
| <br>Snowy Picture      | <br>Noisy Sound            | Aerial Location, direction or Connections  |
| <br>Multiple Image     | <br>Normal Sound           | Aerial Location, direction or Connections  |
| <br>Interference       | <br>Noisy Sound            | Electrical Appliances<br>Cars/Motorcycles<br>Fluorescent Lamps   |
| <br>Normal Picture    | <br>No Sound              | Speaker select switch, Volume<br>(Check whether the mute function has been activated on the Remote Control.)   |
| <br>No Picture       | <br>No Sound             | Not plugged into AC outlet<br>Not switched on<br>Contrast and Brightness/Volume setting<br>(Check by pushing the Power Switch or Stand-by Button on the Remote Control.) |
| <br>No Colour        | <br>Normal Sound         | Colour Control   |
| <br>Scrambled        | <br>Normal or Weak Sound | Retune Channels  |
| <br>Coloured Patches | <br>Normal Sound         | Magnetic interference from unshielded equipment<br>Receiver moved while "ON"<br>Turning the TV set off by pushing the "Power" Button on the TV set for 30 mins.          |
| <br>No Colour        | <br>Rolling Picture      | System Button  |
| <br>H-Line           | <br>Noisy Sound          |  |

# Specifications

## Power Source

AC 230 V, 50 Hz

## Power Consumption

170W  
Stand-by condition 12W

## Receiving System

| 4 Systems |                    | Function   |
|-----------|--------------------|--|
| 1         | PAL B. G           | Reception of broadcasts and Playback from Video Tape Recorders |
| 2         | NTSC 4.43 / 5.5MHz | Playback from Special Video Tape Recorders                     |
| 3         | NTSC 3.58 / 5.5MHz |  |
| 4         | PAL 60Hz           |  |

## Receiving Channels

Regular TV     **VHF BAND**  
                      1 - 11  
                      **UHF BAND**  
                      21 - 69

# Specifications

|  |            |                                      |
|--|------------|--------------------------------------|
| <b>Tuning System</b>                                     |            |                                      |
| Voltage synthesizer                                      |            |                                      |
| <b>Picture Tube</b>                                      |            |                                      |
| Type 26 (66 cm) measured diagonally<br>110° deflection   |            |                                      |
| <b>Headphones</b>  |            |                                      |
| Impedance 8Ω   |            |                                      |
| <b>Audio Output</b>                                      |            |                                      |
| Internal Speaker 7W (Max.)<br>External Speaker 7W (Max.) |            |                                      |
| <b>Aerial Impedance</b>                                  |            |                                      |
| 75Ω Unbalanced coaxial                                   |            |                                      |
| <b>Video/Audio Terminals</b>                             |            |                                      |
| AV1, 2, 3  | S-Video In | Y: 1.0 Vp-p, 75Ω<br>C: 0.3 Vp-p, 75Ω |
|  | Video In   | 1 Vp-p, 75Ω                          |
|  | Audio In   | Approx. 400mV                        |
| Monitor Out  | Video Out  | 1 Vp-p, 75Ω                          |
|  | Audio Out  | Approx. 400mV                        |
| <b>Accessories Supplied</b>                              |            |                                      |
| Remote control × 1<br>R6 Battery × 2                     |            |                                      |
| <b>Dimensions (W × D × H)</b>                            |            |                                      |
| 647 mm × 454 mm × 523 mm                                 |            |                                      |
| <b>Mass</b>  |            |                                      |
| 33.5 kg (Net)  |            |                                      |

## Note:

Design and Specifications are subject to change without notice.  
Weight and Dimensions shown are approximate.

### Customer's Record

The serial number of this product can be found on its rear cover. You should note the serial number of this unit in the space provided below and retain this book as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model Number **TX-26V2Z**

Serial Number \_\_\_\_\_

**Matsushita Electric Industrial Co., Ltd.**

Central P.O. Box 288, Osaka 530-91, Japan

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